

Ag - Silver 56

Fe Alloys 74, 75, 107
Fe/Mg Alloys 107
Fe/Mn Alloys 108
Fe/Si Alloys 108P - Phosphorus 58
Purity Aluminum 52, 53, 54

B - Boron 56

Be - Beryllium 57

ROHS/WEEE 54

Ga - Gallium 58

Ca - Calcium 57

Co - Cobalt 57

Cu Alloys 60, 61, 62, 104

Cu/Fe Alloys 63

Cu/Fe/Mg Alloys 104

Cu/Fe/Mn Alloys 105

Cu/Fe/Ni Alloys 105

Cu/Fe/Si Alloys 105

Cu/Mg Alloys 64, 65, 105

Cu/Mg/Mn Alloys 105

Cu/Mg/Si Alloys 66, 67, 106

Cu/Mg/Zn Alloys 68, 69, 106

Cu/Mn Alloys 106

Cu/Ni Alloys 69, 106

Cu/Si Alloys 70, 71, 72, 73, 74, 107

Cu/Si/Zn Alloys 70

Cu/Zn Alloys 107

Hg - Mercury 57

Sb - Antimony 58

Si - Silicon Binaries 95

Si Alloys 90, 91, 92, 93, 94, 95, 96, 111

Si/Zn Alloys 97

Sn Alloys 59

Li - Lithium 109

Low Alloy 54, 55, 100, 101

Ti - Titanium 58

Mg Alloys 76, 77, 78, 79, 80, 86, 109

Mg/Mn Alloys 110

Mg/Si Alloys 81, 82, 110

Mg/Zn Alloys 83, 84, 110

Mn Alloys 85, 86, 87, 88, 89, 110

XRF 99

XRF Cut 99

Zn Alloys 98, 100, 101, 111

Zr - Zirconium 58

Na - Sodium 58

Ni - Nickel 58

Er - Erbium 57

Data and Symbols: The # symbol indicates the class of the material, where 1 = CRM, 2 = RM, and 3 = TYPE. The TYPE classification is for samples that are certified with the given chemistries, but there are no uncertainties on the certificates. Values shown in (parenthesis) are informational and not certified. The letter "i" may appear in the data, indicating the certified value will be very close to the stated target - this is except for samples with part numbers beginning with AL, for these the "i" is indicating that for an extra fee this value can be certified. All values are listed in mass (or weight) percent unless otherwise noted.

Sample forms: As most samples are discs and not blocks, the unit sizes given indicating first diameter and then height. Blocks will be indicated by showing a third dimension. A few are mushroom type and indicated as well. In the later pages D and M are used to distinguish between mushroom and disc. The letter "c" indicates cast, "H" H.I.P., and "w" wrought.

Aluminum by Grade: Beginning on the next page, and with a summer 2017 addendum near the end of this catalog, please find the world's supply of graded aluminum CRMs. Under the GRADE heading you may see an M, which indicates a modified version of the grade. To simplify these listings, I did not detail some certified trace elements data. Samples that have certified data for these elements will indicate this by showing the element under the Comment section. To find this information, one may use the "SEARCH" function of Adobe Reader to find the sample's complete listing in the second half of this catalog - or use our website database where you can quickly search by any criteria. Only about 55% of the total samples have assigned grades, the rest are in the later pages.

Aluminum by Type: Please browse this second half of the catalog using the linked index above. Herein you will find the current and complete global supply of aluminum CRMs sorted into groups. These samples will be further sorted by the element of interest, indicated in bold type. The section lists graded samples from the first section along with all others currently available.

Aluminum Sets: These samples are available in sets only. Grouped under the heading SET or SETS, member samples are not available individually.

Help is Available: If you require any further information or research, we remain eager to assist.

Thank you and best regards,

Beau Brammer
contact@brammerstandard.com

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|--------------------------|------------|------------------------|------------------|-------------------|-------------------|--------------------|--------------------|-------------------|-------------------|--------------------|-------------|-----------------|-------------------|-------------|
| 1 alloy 100 AL 143/05 | 100 100 | Al ~ 99.00 cast | <0.05 0.020 | <0.10 0.029 | 0.60-0.80 0.60 | <0.03 0.0051 | <0.03 0.0069 | <0.03 0.0023 | <0.15 0.155 | <0.03 0.0051 | . 0.0027 | <0.05 0.0098 | . 0.0049 | 60 x 25 |
| alloy 130 | 130 | Al > 99.30 | <0.03 | <0.10 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.05 | . | |
| alloy 150 | 150 | Al > 99.50 | <0.03 | <0.05 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.05 | . | |
| alloy 160 | 160 | Al > 99.60 | <0.03 | <0.03 | <0.25 | <0.03 | <0.03 | <0.03 | <0.10 | <0.03 | <0.03 | <0.05 | . | |
| alloy 170 | 170 | Al >99.70, Fe/Si >1.50 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.05 | . | |
| 2 alloy 201 AA SS-201 | 201 201 | cast | <0.05 0.0004 | 4.00-5.00 4.49 | <0.15 0.068 | 0.15-0.35 0.249 | 0.20-0.50 0.325 | <0.05 0.0054 | <0.10 0.0400 | 0.15-0.35 0.244 | . 0.0139 | <0.05 0.0051 | . 0.0010 | 64 x 25 |
| alloy B201 | B201 | | <0.05 | 4.50-5.00 | <0.05 | 0.25-0.35 | 0.20-0.50 | <0.05 | <0.05 | 0.15-0.35 | . | <0.05 | . | |
| 1 alloy 203 AL 271/01 | 203 203 | cast | <0.05 0.012 | 4.50-5.50 4.47 | <0.50 0.31 | <0.10 0.075 | 0.20-0.30 0.21 | 1.30-1.70 2.05 | <0.30 0.19 | 0.15-0.25 0.16 | . 0.015 | <0.10 0.012 | 0.10-0.30 0.10 | 60 x 25 |
| 1 AL 272/01 | 203 | cast | 0.012 | 5.22 | 0.21 | 0.16 | 0.10 | 1.77 | 0.10 | 0.20 | 0.026 | 0.022 | 0.19 | 60 x 25 |
| alloy 204 | 204 | | <0.05 | 4.20-5.00 | <0.35 | 0.15-0.35 | <0.10 | <0.05 | <0.20 | 0.15-0.30 | . | <0.10 | . | |
| 2 alloy 206 AA SS-206 | 206 206 | cast | <0.05 0.01i | 4.20-5.00 4.6i | <0.15 0.08i | 0.15-0.35 0.28 | 0.20-0.50 0.35 | <0.05 0.01i | <0.10 0.06i | 0.15-0.30 0.20i | . 0.01i | <0.10 0.03i | . <0.0030 | 64 x 25 |
| 2 alloy 208 AA SS-208 | 208 208 | cast | <0.05 <0.0050 | 3.50-4.50 4.0i | <1.20 0.60 | <0.10 0.05i | <0.50 0.15i | <0.35 0.08i | 2.50-3.50 3.0i | <0.25 0.12i | . 0.01i | <1.00 0.15i | . 0.04i | 64 x 25 |
| 2 ALC-224-AC | 208.2 | cast | 0.027 | 4.26 | 0.53 | 0.022 | 0.042 | 0.030 | 2.64 | 0.15 | 0.014 | 0.039 | . | 57 x 25 |
| 2 alloy 213 AA KA-213 | 213 213 | cast | <0.05 <0.0050 | 6.00-8.00 7.0i | <1.20 1.0i | <0.10 0.05i | <0.60 0.30i | <0.35 0.20i | 1.00-3.00 2.0i | <0.25 0.05i | . . | <2.50 1.0i | . . | 64 x 25 |
| 2 AA KB-213 | 213 | cast | <0.0050 | 7.0i | 1.0i | 0.15i | 0.35 | 0.30i | 3.5i | 0.10i | . | 1.2i | . | 64 x 25 |
| 2 ALC-236-AE | 213 | cast | 0.028 | 6.94 | 1.22 | 0.06 | 0.11 | 0.045 | 2.03 | 0.12 | 0.015 | 0.040 | . | 57 x 25 |
| 2 alloy 222 AA KA-222 | 222 222 | cast | <0.05 <0.0050 | 9.20-10.7 10.0 | <1.50 1.0i | 0.15-0.35 0.30 | <0.50 0.15i | <0.50 0.15i | <2.00 0.75 | <0.25 0.10i | . . | <0.80 0.25 | . . | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 224 | 224 | | <0.03 | 4.50-5.50 | <0.10 | <0.03 | 0.20-0.50 | <0.03 | <0.06 | <0.35 | 0.05-0.15 | <0.05 | 0.10-0.25 | |
| 2 alloy 238 AA SS-238 | 238 238 | cast | <0.05 <0.0050 | 9.00-11.0 10.2 | <1.50 1.0i | 0.15-0.35 0.30 | <0.60 0.20i | <1.00 0.20i | 3.50-4.50 4.0i | <1.50 0.05i | . 0.01i | <1.50 0.20i | . <0.0030 | 64 x 25 |
| alloy 240 | 240 | | <0.05 | 7.00-9.00 | <0.50 | 5.50-6.50 | 0.30-0.70 | 0.30-0.70 | <0.50 | <0.20 | . | <0.10 | . | |
| alloy 242 | 242 | | <0.25 | 3.50-4.50 | <1.00 | 1.20-1.80 | <0.35 | 1.70-2.30 | <0.70 | <0.25 | . | <0.35 | . | |
| alloy A242 | A242 | | 0.15-0.25 | 3.70-4.50 | <0.80 | 1.20-1.70 | <0.10 | 1.80-2.30 | <0.60 | 0.07-0.20 | . | <0.10 | . | |
| 1 56X G14H 4C | 242 | cast | 0.0309 | 3.82 | 0.251 | 1.72 | 0.122 | 2.37 | 0.504 | 0.069 | 0.0252 | 0.091 | . | 50 x 20 |
| 2 AA KA-242 | 242 | cast | <0.0050 | 3.6i | 0.40 | 1.8i | 0.02i | 2.2i | 0.25 | 0.06i | . | 0.03i | . | 64 x 25 |
| 2 AA KB-242 | 242 | cast | <0.0050 | 4.4i | 0.20i | 1.2i | 0.05i | 1.8i | 0.40 | 0.15i | . | 0.05i | . | 64 x 25 |
| 2 AA SS-242 | 242 | cast | 0.03i | 4.0i | 0.55 | 1.5i | 0.08i | 2.0i | 0.50i | 0.12i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| 2 AA SS-A242 | A242 | cast | 0.20i | 4.1i | 0.45 | 1.6i | 0.05i | 2.0i | 0.30 | 0.12i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| 1 AL 251/01 | 242 | cast | 0.010 | 1.95 | 0.19 | 0.55 | 0.022 | 0.50 | 0.15 | 0.064 | . | 0.018 | . | 60 x 25 |
| 1 AL 252/01 | 242 | cast | 0.028 | 3.40 | 0.10 | 1.35 | 0.012 | 1.75 | 0.20 | 0.046 | . | 0.015 | . | 60 x 25 |
| 1 AL 253/01 | 242 | cast | 0.15 | 4.10 | 0.22 | 1.75 | 0.052 | 2.20 | 0.38 | 0.19 | . | 0.040 | . | 60 x 25 |
| 1 AL 254/01 | 242 | cast | 0.053 | 2.68 | 1.23 | 1.62 | 0.060 | 1.20 | 0.25 | 0.102 | . | 0.100 | . | 60 x 25 |
| 1 AL 255/01 | 242 | cast | . | 2.15 | 0.93 | 1.90 | 0.105 | 0.90 | 0.10 | 0.055 | . | 0.026 | . | 60 x 25 |
| 2 ALC-218-AR | 242.2 | cast | 0.030 | 4.00 | 0.49 | 1.50 | 0.037 | 2.00 | 0.18 | 0.12 | . | 0.035 | . | 57 x 25 |
| alloy 243 | 243 | | 0.20-0.40 | 3.50-4.50 | <0.40 | 1.80-2.30 | 0.15-0.45 | 1.90-2.30 | <0.35 | 0.06-0.20 | 0.06-0.20 | <0.05 | . | |
| alloy 249 | 249 | | <0.05 | 3.80-4.60 | <0.10 | 0.25-0.50 | 0.25-0.50 | <0.03 | <0.05 | 0.02-0.35 | . | 2.50-3.50 | . | |
| alloy 295 | 295 | | <0.05 | 4.00-5.00 | <1.00 | <0.03 | <0.35 | <0.05 | 0.70-1.50 | <0.25 | . | <0.35 | . | |
| 2 AA KA-295 | 295 | cast | <0.0050 | 4.1i | 1.0i | 0.01i | 0.10i | 0.02i | 0.55 | 0.07i | . | 0.15i | . | 64 x 25 |
| 2 AA KB-295 | 295 | cast | <0.0050 | 4.9i | 0.35 | 0.01i | 0.03i | 0.08i | 1.3i | 0.17i | . | 0.05i | . | 64 x 25 |
| 2 AA SS-295 | 295 | cast | <0.0050 | 4.5i | 0.70 | 0.05i | 0.12i | 0.05i | 0.90 | 0.12i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|-----------|---------|---------|---------|---------|---------|---------|-----------|-------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|
| alloy 100 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 143/05 | . | . | . | 0.00042 | . | . | . | . | 0.014 | . | 0.00025 | . | . | 0.0026 | . | . | 0.0030 | . |
| alloy 130 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 150 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 160 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 170 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 201 | 0.40-1.00 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-201 | 0.559 | . | . | . | 0.0002 | . | . | 0.0001 | 0.020 | . | . | 0.00002 | 0.0006 | 0.0010 | . | . | 0.0060 | . |
| alloy B201 | 0.50-1.00 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 203 | . | . | . | . | . | . | . | 0.20-0.30 | . | . | . | . | . | . | 0.20-0.30 | . | . | . |
| AL 271/01 | . | . | . | . | . | . | . | 0.20 | . | . | . | . | . | . | 0.40 | . | . | . |
| AL 272/01 | . | . | . | . | . | . | . | 0.10 | . | . | . | . | . | . | 0.54 | . | . | . |
| alloy 204 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.05 | . |
| alloy 206 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-206 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 |
| alloy 208 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-208 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.012 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.10i | <0.0010 | <0.0010 | 0.10i | <0.0010 |
| ALC-224-AC | . | . | . | . | 0.019 | . | . | . | 0.016 | . | . | . | . | 0.021 | . | . | 0.024 | . |
| alloy 213 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.55 | . |
| AA KA-213 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KB-213 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-236-AE | . | . | . | . | 0.026 | . | . | . | 0.020 | . | . | . | . | 0.023 | . | . | 0.024 | . |
| alloy 222 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-222 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.20i | . | . | 0.12i | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 224 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 238 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-238 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 240 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 242 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy A242 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 56X G14H 4C | . | . | . | . | . | . | . | 0.0288 | . | . | . | . | . | 0.050 | . | . | 0.037 | . |
| AA KA-242 | . | . | . | 0.02i | . | . | . | . | . | . | . | . | . | 0.02i | . | . | 0.02i | . |
| AA KB-242 | . | . | . | 0.05i | . | . | . | . | . | . | . | . | . | 0.05i | . | . | 0.05i | . |
| AA SS-242 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA SS-A242 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL 251/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 252/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 253/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 254/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 255/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-218-AR | . | . | . | . | 0.040 | . | . | . | . | . | . | . | . | 0.047 | . | . | 0.048 | . |
| alloy 243 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 249 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 295 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-295 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | . | . | 0.004i | . |
| AA KB-295 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.05i | . | . | 0.01i | . |
| AA SS-295 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.003i | <0.0010 |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------|-------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-------|--------|-------|---------|-------------|
| alloy 296 | 296 | | <0.05 | 4.00-5.00 | <1.20 | <0.05 | <0.35 | <0.35 | 2.00-3.00 | <0.25 | . | <0.50 | . | |
| 2 AA SS-296 | 296 | cast | <0.0050 | 4.5i | 0.60 | 0.06i | 0.20i | 0.15i | 2.8i | 0.10i | 0.01i | 0.25 | <0.0030 | 64 x 25 |
| alloy 301 | 301 | | <0.05 | 3.00-3.50 | 0.80-1.50 | 0.25-0.50 | 0.50-0.80 | 1.00-1.50 | 9.50-10.5 | <0.20 | . | <0.05 | . | |
| alloy 302 | 302 | | <0.03 | 2.80-3.20 | <0.25 | 0.70-1.20 | <0.03 | 1.00-1.50 | 9.50-10.5 | <0.20 | . | <0.05 | . | |
| alloy 303 | 303 | | <0.03 | <0.20 | 0.80-1.50 | 0.45-0.70 | 0.50-0.80 | <0.03 | 9.50-10.5 | <0.20 | . | <0.05 | . | |
| alloy 305 | 305 | | <0.25 | 1.00-1.50 | <0.60 | <0.10 | <0.50 | <0.05 | 4.50-5.50 | <0.25 | . | <0.35 | . | |
| 2 AA KC-355 | 305 | cast | 0.03i | 1.3i | 0.15i | 0.03i | 0.08i | 0.05i | 5.0i | 0.12i | . | 0.03i | . | 64 x 25 |
| 2 ALC-125-AQ | 305 | cast | 0.027 | 1.22 | 0.24 | 0.037 | 0.038 | 0.032 | 5.50 | 0.15 | 0.016 | 0.033 | . | 57 x 25 |
| alloy 308 | 308 | | <0.05 | 4.00-5.00 | <1.00 | <0.10 | <0.50 | <0.05 | 5.00-6.00 | <0.25 | . | <1.00 | . | |
| 2 AA SS-308 | 308 | cast | <0.0050 | 4.5i | 0.65 | 0.08i | 0.10i | 0.10i | 5.5i | 0.06i | 0.01i | 0.25 | <0.0030 | 64 x 25 |
| 2 ALC-127-AB | 308 | cast | 0.022 | 4.85 | 0.39 | 0.030 | 0.027 | 0.027 | 4.59 | 0.033 | 0.013 | 0.035 | 0.02 | 57 x 25 |
| alloy 319 | 319 | | <0.05 | 3.00-4.00 | <1.00 | <0.10 | <0.50 | <0.35 | 5.50-6.50 | <0.25 | . | <1.00 | . | |
| alloy B319 | B319 | | <0.05 | 3.00-4.00 | <1.20 | 0.10-0.50 | <0.80 | <0.50 | 5.50-6.50 | <0.25 | . | <1.00 | . | |
| 1 55X G04H XA | 319 | HIP | 0.0165 | 3.40 | 0.280 | 0.063 | 0.196 | 0.302 | 5.78 | 0.176 | 0.0183 | 0.492 | 0.0278 | ~65 x ~25 |
| 2 AA SS-319 | B319 | cast | 0.01i | 3.8i | 0.85 | 0.10i | 0.40 | 0.20i | 6.2i | 0.15i | 0.02i | 0.35 | <0.0030 | 64 x 25 |
| 2 ALC-319-AA | 319 | cast | 0.072 | 3.52 | 0.40 | 0.34 | 0.27 | 0.072 | 7.62 | 0.13 | 0.019 | 0.23 | 0.0038 | 57 x 25 |
| 2 ALC-B319.1-AF | B319 | cast | 0.015 | 3.11 | 0.64 | 0.33 | 0.43 | 0.049 | 6.14 | 0.060 | 0.020 | 0.72 | 0.0030 | 57 x 50 |
| 1 V 3337-3 | B319 | cast | 0.023 | 3.22 | 0.58 | 0.25 | 0.31 | 0.10 | 5.72 | 0.034 | 0.0083 | 0.21 | 0.0050 | 60 x 20 |
| alloy 320 | 320 | | <0.05 | 2.00-4.00 | <1.20 | 0.05-0.60 | <0.80 | <0.35 | 5.00-8.00 | <0.25 | . | <3.00 | . | |
| 1 55X G04H 8K | 320 | cast | 0.050 | 3.56 | 0.58 | 0.18 | 0.358 | 0.26 | 5.48 | 0.211 | 0.0300 | 1.07 | . | ~65 x ~25 |
| 2 IMI 27WM5 | 320 | cast | <0.005 | 2.79 | 0.91 | 0.36 | 0.10 | 0.005 | 5.60 | 0.005 | . | 1.13 | . | 58 x 7 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------|-------|---------|---------|-----------|-------|-----------|-----------|--------|-----------|--------|---------|---------|---------|-------------|
| 1 V 3054-4 | 320 | cast | 0.021 | 3.65 | 0.75 | 0.25 | 0.64 | 0.051 | 8.09 | 0.120 | 0.016 | 1.10 | 0.017 | 60 x 20 |
| 1 V 3336-3 | 320 | cast | 0.035 | 2.98 | 0.15 | 0.26 | 0.19 | 0.11 | 5.39 | 0.11 | 0.0068 | 0.051 | 0.0021 | 60 x 20 |
| 1 V 3050-1 | 320 | cast | 0.0509 | 3.241 | 0.474 | 0.195 | 0.235 | 0.1076 | 5.12 | 0.1259 | 0.00598 | 0.311 | 0.00564 | 60 x 20 |
| alloy 324 | 324 | | <0.05 | 0.40-0.60 | <1.20 | 0.40-0.70 | <0.50 | <0.30 | 7.00-8.00 | <0.20 | . | <1.00 | . | |
| alloy 328 | 328 | | <0.35 | 1.00-2.00 | <1.00 | 0.20-0.60 | 0.20-0.60 | <0.25 | 7.50-8.50 | <0.25 | . | <1.50 | . | |
| alloy 332 | 332 | | <0.05 | 2.00-4.00 | <1.20 | 0.50-1.50 | <0.50 | <0.50 | 8.50-10.5 | <0.25 | . | <1.00 | . | |
| 2 AA KA-A332 | A332 | cast | <0.0050 | 1.0i | 0.50 | <0.0050 | 0.06i | 2.7i | 12.4 | 0.06i | . | <0.0050 | . | 64 x 25 |
| 2 55X G26H 3F | 332 | cast | 0.130 | 2.19 | 1.07 | 1.01 | 0.45 | 0.51 | 9.6 | 0.147 | 0.020 | 0.79 | . | 40 x 15 |
| 2 AA SS-332 | 332 | cast | <0.0050 | 3.2i | 0.70 | 1.0i | 0.25 | 0.50 | 9.2i | 0.14i | 0.02i | 0.25 | <0.0030 | 64 x 25 |
| 2 ALC-6495-AA | 332 | wrought | 0.030 | 2.36 | 1.05 | 1.31 | 0.53 | 0.051 | 10.40 | 0.10 | . | 0.055 | . | 57 x 25 |
| 2 ALC-6195-AE | 332.1 | wrought | 0.027 | 3.45 | 0.70 | 1.05 | 0.43 | 0.028 | 10.70 | 0.017 | 0.012 | 0.93 | . | 57 x 25 |
| 2 ALC-A143-AW | 332.1 | cast | 0.040 | 3.03 | 0.73 | 0.91 | 0.30 | 0.89 | 10.02 | 0.11 | 0.015 | 0.035 | . | 57 x 25 |
| 2 ALC-X332.0-AC | 332 M | cast | 0.030 | 3.28 | 0.20 | 1.29 | 0.032 | 0.031 | 11.33 | 0.25 | 0.019 | 0.067 | 0.0030 | 57 x 25 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|---------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| alloy 296 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-296 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.01i | <0.0010 |
| alloy 301 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 302 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 303 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 305 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KC-355 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i |
| ALC-125-AQ | . | . | . | . | 0.021 | . | . | . | 0.011 | . | . | . | . | 0.018 | . | . | 0.025 | . |
| alloy 308 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-308 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| ALC-127-AB | . | . | . | . | (0.024) | 0.006 | . | . | 0.016 | . | 0.0004 | . | . | 0.031 | . | . | 0.030 | . |
| alloy 319 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy B319 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 55X G04H XA | 0.0030 | . | . | 0.0006 | 0.0058 | 0.0011 | 0.0048 | 0.0060 | . | . | . | . | (0.0023) | 0.0125 | 0.0053 | . | 0.0112 | . |
| AA SS-319 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | 0.05i | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.20i | <0.0010 | <0.0010 | 0.20i | 0.02i |
| ALC-319-AA | . | . | . | 0.0012 | 0.027 | 0.0033 | 0.0011 | . | 0.020 | . | 0.0023i | 0.0022i | 0.0023i | 0.068 | 0.0027 | . | 0.064 | 0.0040i |
| ALC-B319.1-AF | . | . | . | 0.0017 | 0.022i | 0.0040i | 0.0013 | . | 0.024 | . | 0.0024i | 0.0026i | 0.0016i | 0.013 | (0.002) | . | 0.014 | 0.044i |
| V 3337-3 | . | . | <0.0002 | . | <0.0002 | 0.0048 | 0.0018 | 0.0046 | 0.012 | . | <0.0002 | 0.0081 | 0.0034 | 0.13 | <0.0005 | . | 0.011 | 0.0005 |
| alloy 320 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 55X G04H 8K | . | . | . | . | 0.011 | . | . | 0.020 | . | . | 0.0010 | . | . | 0.154 | 0.102 | . | . | 0.0032 |
| IMI 27WM5 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.005 | . | . | 0.15 | . |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|---------------|---------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|--------|---------|
| V 3054-4 | . | . | <0.0005 | <0.0002 | 0.0012 | 0.0011 | 0.0010 | 0.0007 | 0.012 | 0.0086 | 0.0003 | 0.0059 | 0.0027 | 0.066 | 0.0013 | . | 0.046 | 0.0016 |
| V 3336-3 | . | . | <0.0002 | . | <0.0002 | 0.0092 | 0.0010 | <0.0002 | 0.010 | . | <0.0001 | 0.0026 | 0.0025 | 0.062 | <0.0002 | . | 0.04 | <0.0002 |
| V 3050-1 | . | Al:[90.0] | <0.0002 | . | 0.0114 | 0.0045 | 0.00754 | 0.00822 | 0.01294 | 0.0061 | 0.00043 | 0.00045 | <0.0005 | 0.0592 | <0.001 | . | 0.0397 | 0.0146 |
| alloy 324 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 328 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 332 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-A332 | . | . | . | . | . | . | . | . | . | . | . | . | 0.005i | . | 0.003i | . | . | 0.02i |
| 55X G26H 3F | . | . | . | . | . | . | . | 0.076 | 0.011 | . | 0.006 | . | . | 0.23 | . | . | 0.16 | . |
| AA SS-332 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.10i | <0.0010 | <0.0010 | 0.10i | 0.02i |
| ALC-6495-AA | . | . | . | . | 0.040 | . | . | . | . | . | . | . | . | 0.032 | . | . | 0.028 | . |
| ALC-6195-AE | . | . | . | (0.001) | 0.020 | (0.01) | . | . | 0.015 | . | . | . | . | 0.033 | . | . | 0.028 | . |
| ALC-A143-AW | . | . | . | 0.0018 | 0.032 | 0.006 | . | . | 0.013 | . | 0.0005 | 0.0004 | . | 0.036 | . | . | 0.031 | . |
| ALC-X332.0-AC | . | . | . | 0.0011 | 0.005 | 0.0039 | 0.0013 | 0.0021 | 0.021 | . | 0.0032 | 0.0062 | 0.0031 | 0.028 | . | . | 0.020 | 0.0030 |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------|--------|--------------------------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|-----------|---------|---------------|
| alloy 333 | 333 | | <0.05 | 3.00-4.00 | <1.00 | 0.05-0.50 | <0.50 | <0.50 | 8.00-10.0 | <0.25 | . | <1.00 | . | |
| alloy A333 | A333 | | <0.05 | 3.00-4.00 | <1.00 | 0.05-0.50 | <0.50 | <0.50 | 8.00-10.0 | <0.25 | . | <3.00 | . | |
| 2 ALC-A333.0-AF | A333 | cast | 0.015 | 3.54 | 0.85 | 0.082i | 0.35 | 0.13 | 9.13 | 0.032 | 0.030 | 2.34 | 0.018 | 57 x 25 |
| 2 ALC-A333.0-AI | A333 M | cast | 0.11 | 3.47 | 0.90 | 0.14 | 0.33 | 0.15 | 9.7 | 0.12 | 0.020 | 2.56 | 0.0029 | 57 x 25 |
| alloy 336 | 336 | | <0.05 | 0.50-1.50 | <1.20 | 0.70-1.30 | <0.35 | 2.00-3.00 | 11.0-13.0 | <0.25 | . | <0.35 | . | |
| 2 AA SS-336 | 336 | cast | <0.0050 | 1.0i | 0.65 | 1.2i | 0.06i | 2.5i | 12.0 | 0.04i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| alloy 337 | 337 | | <0.05 | 3.00-3.50 | 0.80-1.20 | 0.35-0.50 | 0.50-0.80 | 1.00-1.50 | 9.50-10.5 | <0.20 | . | <0.03 | . | |
| alloy 338 | 338 | | <0.05 | 2.80-3.20 | <0.20 | 0.80-1.20 | <0.03 | 1.00-1.50 | 9.50-10.5 | <0.20 | . | <0.03 | . | |
| alloy 339 | 339 | | <0.05 | 1.50-3.00 | <1.20 | 0.50-1.50 | <0.50 | 0.50-1.50 | 11.0-13.0 | <0.25 | . | <1.00 | . | |
| 1 55X G26H 5E | 339 | cast | 0.0394 | 1.40 | 0.199 | 1.41 | 0.495 | 1.13 | 11.38 | 0.018 | 0.0169 | 0.008 | . | 50 x 20 |
| 2 AA SS-339 | 339 | cast | <0.0050 | 2.0i | 0.40i | 0.90i | 0.20i | 0.80i | 11.5 | 0.10i | 0.015i | 0.60i | <0.0030 | 64 x 25 |
| 1 AL 433/04 | 339 | cast | 0.047 | 1.44 | 0.306 | 1.25 | 0.154 | 1.05 | 11.96 | 0.053 | 0.0157 | 0.201 | 0.0197 | 60 x 25 |
| 1 AL 434/03 | 339 | cast | 0.103 | 1.74 | 0.33 | 1.45 | 0.20 | 1.49 | 12.9 | 0.114 | 0.0143 | 0.129 | 0.0112 | 60 x 25 |
| 2 ALC-339.0-AD | 339 | cast | 0.051 | 1.40 | 0.048 | 1.23 | 0.37 | 1.12 | 12.73 | 0.048 | 0.032 | 0.099 | 0.0029 | 57 x 25 |
| 2 ALC-B162-AG | 339.1 | cast | 0.033 | 2.56 | 0.40 | 1.07 | 0.08 | 0.68 | 12.04 | 0.054 | 0.012 | 0.044 | . | 57 x 25 |
| 1 V 3204-2 | 339 | cast | 0.005 | 1.50 | 0.465 | 1.19 | 0.098 | 0.92 | 11.35 | 0.014 | . | 0.12 | . | 60 x 20 |
| alloy 343 | 343 | | <0.10 | 0.50-0.90 | <1.20 | <0.10 | <0.50 | <0.10 | 6.70-7.70 | <0.10 | . | 1.20-2.00 | . | |
| alloy 354 | 354 | | <0.05 | 1.60-2.00 | <0.20 | 0.40-0.60 | <0.10 | <0.05 | 8.60-9.40 | <0.20 | . | <0.10 | . | |
| 2 AA SS-354 | 354 | cast | 0.01i | 1.8i | 0.15i | 0.55 | 0.05i | 0.01i | 9.0i | 0.12i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 355 | 355 | If Fe > 0.45, Mn > 1/2Fe | <0.25 | 1.00-1.50 | <0.60 | 0.40-0.60 | <0.50 | <0.05 | 4.50-5.50 | <0.25 | . | <0.35 | . | |
| alloy C355 | C355 | | <0.05 | 1.00-1.50 | <0.20 | 0.40-0.60 | <0.10 | <0.05 | 4.50-5.50 | <0.20 | . | <0.10 | . | |
| 2 AA KA-355 | 355 | cast | 0.01i | 1.0i | 0.65 | 0.63 | 0.05i | 0.03i | 4.5i | 0.18i | . | 0.05i | . | 64 x 25 |
| 2 AA KB-355 | 355 | cast | 0.02i | 1.5i | 0.15i | 0.40 | 0.15i | 0.01i | 5.5i | 0.08i | . | 0.15i | . | 64 x 25 |
| 2 AA SS-355 | 355 | cast | 0.04i | 1.3i | 0.35 | 0.54 | 0.08i | 0.05i | 5.1i | 0.12i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| alloy 356 | 356 | If Fe > 0.45, Mn > 1/2Fe | <0.05 | <0.25 | <0.60 | 0.20-0.45 | <0.35 | <0.05 | 6.50-7.50 | <0.25 | . | <0.35 | . | |
| alloy B356 | B356 | | <0.05 | <0.05 | <0.09 | 0.25-0.45 | <0.05 | <0.05 | 6.50-7.50 | 0.04-0.20 | . | <0.05 | . | |
| alloy C356 | C356 | | <0.05 | <0.05 | <0.07 | 0.25-0.45 | <0.05 | <0.05 | 6.50-7.50 | 0.04-0.20 | . | <0.05 | . | |
| alloy D356 | D356 | | <0.05 | <0.20 | <0.15 | 0.35-0.45 | <0.10 | <0.05 | 6.50-7.50 | <0.20 | . | <0.10 | . | |
| alloy F356 | F356 | | <0.05 | <0.20 | <0.20 | 0.17-0.25 | <0.10 | <0.05 | 6.50-7.50 | 0.04-0.20 | . | <0.05 | . | |
| 2 AA KA-356 | 356 | cast | <0.0050 | 0.20i | 0.50 | 0.22i | 0.03i | <0.0050 | 6.5i | 0.05i | 0.01i | 0.18i | . | 64 x 25 |
| 2 AA KB-356 | 356 | cast | <0.0050 | 0.05i | 0.15i | 0.45 | 0.12i | <0.0050 | 7.5i | 0.16i | 0.01i | 0.04i | . | 64 x 25 |
| 2 AA KC-356 | B356 | cast | <0.0050 | 0.04i | 0.08i | 0.35 | 0.02i | 0.01i | 7.0i | 0.12i | 0.01i | 0.03i | . | 64 x 25 |
| 2 AA SS-356 | 356 | cast | <0.0050 | 0.12i | 0.35 | 0.35 | 0.05i | 0.03i | 7.1i | 0.12i | 0.01i | 0.10i | <0.0030 | 64x25 or 25x6 |
| 1 AL 454/02 | B356 | cast | 0.0073 | 0.011 | 0.095 | 0.429 | 0.030 | 0.0072 | 7.48 | 0.151 | 0.0103 | 0.0338 | 0.0107 | 60 x 25 |
| 2 ALC-356.2-AW | 356.2 | cast | 0.027 | 0.081 | 0.21 | 0.39 | 0.033 | 0.031 | 7.27 | 0.18 | 0.02 | 0.082 | 0.0021 | 57 x 25 |
| 2 ALC-356.2-AX | 356.2 | cast | 0.030 | 0.088 | 0.204 | 0.41 | 0.035 | 0.029 | 7.27 | 0.171 | 0.020 | 0.079 | 0.0026 | 57 x 25 |
| 1 SRM 1255b | 356 | | (0.0150) | 0.1161 | 0.1170 | 0.3822 | 0.0527 | 0.0179 | 7.298 | 0.1535 | 0.0324 | 0.0842 | . | 63 x 19 |
| alloy 357 | 357 | | <0.05 | <0.05 | <0.15 | 0.45-0.60 | <0.03 | <0.05 | 6.50-7.50 | <0.20 | . | <0.05 | . | |
| alloy A357 | A357 | | <0.05 | <0.20 | <0.20 | 0.40-0.70 | <0.10 | <0.05 | 6.50-7.50 | 0.04-0.20 | . | <0.10 | . | |
| alloy B357 | B357 | | <0.05 | <0.05 | <0.09 | 0.45-0.60 | <0.05 | <0.05 | 6.50-7.50 | 0.04-0.20 | . | <0.05 | . | |
| alloy C357 | C357 | | <0.05 | <0.05 | <0.09 | 0.45-0.70 | <0.05 | <0.05 | 6.50-7.50 | 0.04-0.20 | . | <0.05 | . | |
| alloy D357 | D357 | | <0.05 | <0.05 | <0.20 | 0.55-0.60 | <0.10 | <0.05 | 6.50-7.50 | 0.10-0.20 | . | <0.05 | . | |
| 2 AA SS-A357 | A357 | cast | 0.02i | 0.05i | 0.10i | 0.60 | 0.02i | 0.02i | 7.1i | 0.12i | 0.01i | 0.03i | <0.0030 | 64 x 25 |
| 1 AL 452/02 | 357 | cast | 0.0015 | 0.0039 | 0.121 | 0.63 | 0.0121 | 0.0026 | 6.96 | 0.097 | 0.0051 | 0.0014 | 0.0008 | 60 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|---------------|---------|---------|---------|-----------|---------|---------|---------|---------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| alloy 333 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy A333 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-A333.0-AF | . | . | . | <0.0001 | 0.021 | 0.0043i | . | . | 0.030 | . | 0.0015i | 0.0033i | 0.001 | 0.015 | 0.0057 | . | 0.017 | 0.0029i |
| ALC-A333.0-AI | . | . | . | 0.0012 | 0.019 | 0.0021 | 0.0012 | . | 0.017 | . | 0.0022i | 0.0028i | 0.0032i | 0.13 | 0.0039 | . | 0.17 | 0.0031i |
| alloy 336 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-336 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | 0.003i | <0.0030 | 0.001i | <0.0010 | <0.0030 | 0.02i |
| alloy 337 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 338 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 339 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 55X G26H 5E | . | . | . | . | 0.0201 | . | . | 0.015 | . | . | . | . | . | 0.0108 | . | . | 0.035 | . |
| AA SS-339 | <0.0010 | <0.0010 | <0.0010 | <0.0005i | <0.0010 | . | <0.0010 | <0.0010 | 0.020i | . | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.020i |
| AL 433/04 | . | . | . | . | . | 0.0052 | . | . | . | . | . | 0.0082 | 0.0012 | 0.019 | 0.0046 | . | 0.0086 | 0.050 |
| AL 434/03 | . | . | . | . | . | 0.015 | . | . | . | . | . | 0.0079 | (0.0012) | 0.0074 | . | . | 0.0054 | 0.027 |
| ALC-339.0-AD | . | . | . | 0.0013 | 0.04 | 0.0020 | . | . | 0.031 | . | 0.0009 | 0.0025 | 0.0061 | 0.046 | 0.0010 | . | 0.046 | 0.0021 |
| ALC-B162-AG | . | . | . | . | 0.030 | . | . | . | 0.016 | . | . | . | . | 0.031 | . | . | 0.027 | . |
| V 3204-2 | . | . | <0.0004 | . | . | 0.0023 | . | . | . | . | . | . | 0.0006 | 0.0031 | <0.0002 | . | 0.0009 | . |
| alloy 343 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.05 | . |
| alloy 354 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-354 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | 0.02i | 0.02i |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 355 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy C355 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-355 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i |
| AA KB-355 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i |
| AA SS-355 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| alloy 356 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy B356 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy C356 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy D356 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy F356 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-356 | . | . | . | . | . | . | . | . | 0.02i | . | . | . | 0.003i | . | 0.001i | . | . | 0.05i |
| AA KB-356 | . | . | . | . | . | . | . | . | 0.02i | . | . | . | . | 0.06i | . | . | 0.06i | 0.02i |
| AA KC-356 | . | . | . | . | . | . | . | . | 0.02i | . | . | . | . | . | . | . | . | 0.02i |
| AA SS-356 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| AL 454/02 | . | . | . | <0.0001 | . | 0.0031 | . | . | 0.017 | . | . | . | 0.0011 | . | . | . | . | . |
| ALC-356.2-AW | . | . | . | 0.0010 | 0.0086 | 0.0037i | 0.0011 | . | 0.02 | . | 0.0024i | 0.0028i | 0.002 | 0.0082 | 0.0029 | . | 0.015 | 0.031i |
| ALC-356.2-AX | . | . | 0.0001 | 0.0011 | 0.0099 | 0.0031 | 0.0010 | . | 0.021 | . | 0.0035i | 0.0022i | 0.0023 | 0.0086 | 0.0029 | . | 0.020 | 0.0159 |
| SRM 1255b | . | . | . | . | . | . | . | . | 0.0175 | . | . | . | . | 0.0182 | . | . | 0.1334 | 0.0140 |
| alloy 357 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy A357 | . | . | . | 0.04-0.07 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy B357 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy C357 | . | . | . | 0.04-0.07 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy D357 | . | . | . | 0.04-0.07 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-A357 | <0.0010 | <0.0010 | <0.0010 | 0.06i | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| AL 452/02 | . | . | . | 0.0004 | . | 0.0017 | . | . | 0.0073 | . | . | 0.0009 | 0.0019 | 0.0013 | . | . | 0.0013 | 0.0002 |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-------------------------|-------|------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|-----------|---------|---------------|
| alloy 358 | 358 | | <0.20 | <0.20 | <0.30 | 0.40-0.60 | <0.20 | <0.05 | 7.60-8.60 | 0.10-0.20 | . | <0.20 | . | |
| 2 AA KA-358 | 358 | wrought | 0.02i | 0.08i | 0.20i | 0.65 | 0.05i | 0.02i | 8.0i | 0.12i | 0.01i | 0.06i | . | 64 x 25 |
| alloy 359 | 359 | | <0.05 | <0.20 | <0.20 | 0.50-0.70 | <0.10 | <0.05 | 8.50-9.50 | <0.20 | . | <0.10 | . | |
| alloy 360 | 360 | | <0.05 | <0.60 | <2.00 | 0.40-0.60 | <0.35 | <0.50 | 9.00-10.0 | <0.05 | . | <0.50 | . | |
| 2 AA KA-360 | 360 | cast | <0.0050 | 0.40 | 0.35 | 0.45 | 0.10i | 0.25 | 10.0 | 0.02i | . | 0.25 | . | 64 x 25 |
| 2 AA KB-360 | 360 | cast | <0.0050 | 0.10i | 1.0i | 0.65 | 0.25 | 0.10i | 9.0i | 0.10i | . | 0.10i | . | 64 x 25 |
| 2 AA KC-360 | 360 | cast | <0.0050 | 0.30 | 1.1i | 0.58 | 0.15i | 0.20i | 9.6i | 0.02i | . | 0.25 | . | 64 x 25 |
| 2 AA KD-360 | 360 | cast | 0.01i | 0.75 | 0.10i | 0.52 | 0.05i | 0.02i | 9.0i | 0.12i | . | 0.03i | . | 64 x 25 |
| 2 AA SS-360 | 360 | cast | <0.0050 | 0.25 | 0.60 | 0.55 | 0.15i | 0.17i | 9.6i | 0.06i | 0.01i | 0.17i | <0.0030 | 64 x 25 |
| 1 AL 415/03 | 360 | cast | 0.0300 | 0.054 | 0.180 | 0.500 | 0.096 | 0.050 | 12.80 | 0.055 | 0.020 | 0.036 | . | 60 x 25 |
| 1 AL 416/04 | 360 | cast | 0.049 | 0.190 | 0.690 | 0.287 | 0.386 | 0.096 | 13.43 | 0.028 | 0.0098 | 0.048 | 0.0201 | 60 x 25 |
| 2 ALC-6490-AC | 360 | wrought | 0.037 | 0.039 | 0.32 | 0.22 | 0.036 | 0.040 | 9.02 | 0.042 | 0.005 | 0.049 | 0.021 | 57 x 25 |
| alloy 361 | 361 | | 0.20-0.30 | <0.50 | <1.10 | 0.40-0.60 | <0.25 | 0.20-0.30 | 9.50-10.5 | <0.20 | . | <0.50 | . | |
| alloy 362 | 362 | | <0.05 | <0.20 | 0.80-1.20 | 0.50-0.70 | 0.50-0.80 | <0.03 | 9.50-10.5 | <0.20 | . | <0.03 | . | |
| alloy 363 | 363 | Mn+Cr < 0.8 | <0.05 | 2.50-3.50 | <1.10 | 0.15-0.40 | . | <0.25 | 4.50-6.00 | <0.20 | . | 3.00-4.50 | . | |
| 2 ALC-6252-AE | 363.1 | wrought | 0.034 | 3.01 | 0.33 | 0.33 | 0.60 | 0.041 | 5.41 | 0.12 | 0.012 | 3.46 | . | 57 x 25 |
| alloy 364 | 364 | | 0.25-0.50 | <0.20 | <1.50 | 0.20-0.40 | <0.10 | <0.15 | 7.50-9.50 | <0.15 | . | <0.05 | . | |
| alloy 365 | 365 | | <0.05 | <0.03 | <0.15 | 0.10-0.50 | 0.50-0.80 | <0.05 | 9.50-11.5 | 0.04-0.15 | . | <0.07 | . | |
| alloy 369 | 369 | | 0.30-0.40 | <0.50 | <1.30 | 0.25-0.45 | <0.35 | <0.05 | 11.0-12.0 | <0.05 | . | <1.00 | . | |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 380 | 380 | | <0.05 | 3.00-4.00 | <2.00 | <0.10 | <0.50 | <0.50 | 7.50-9.50 | <0.05 | . | <3.00 | . | |
| alloy A380.0 and A380.1 | | others <0.50 max | . | 3.00-4.00 | <1.30 | <0.10 | <0.50 | <0.50 | 7.50-9.50 | . | . | <3.00 | . | |
| alloy B380 | B380 | | <0.05 | 3.00-4.00 | <1.30 | <0.10 | <0.50 | <0.50 | 7.50-9.50 | <0.05 | . | <1.00 | . | |
| alloy C380 | C380 | | <0.05 | 3.00-4.00 | <1.30 | 0.10-0.30 | <0.50 | <0.50 | 7.50-9.50 | <0.05 | . | <3.00 | . | |
| alloy D380 | D380 | | <0.05 | 3.00-4.00 | <1.30 | 0.10-0.30 | <0.50 | <0.50 | 7.50-9.50 | <0.05 | . | <1.00 | . | |
| 2 AA KA-380 | 380 | cast | 0.05i | 3.1i | 1.1i | 0.45 | 0.15i | 0.45 | 9.4i | 0.12i | . | 0.15i | . | 64 x 25 |
| 2 AA KB-380 | 380 | cast | 0.03i | 4.1i | 0.65 | 0.05i | 0.60 | 0.10i | 7.6i | 0.03i | . | 0.90 | . | 64 x 25 |
| 2 AA KC-380 | 380 | cast | 0.06i | 3.6i | 1.2i | 0.20i | 0.30 | 0.20i | 9.0i | 0.07i | . | 0.60 | . | 64 x 25 |
| 2 AA KD-380 | 380 | cast | 0.06i | 3.6i | 1.1i | 0.20i | 0.30 | 0.20i | 9.2i | 0.06i | . | 2.7i | . | 64 x 25 |
| 2 AA KE-380 | 380 | cast | 0.02i | 3.6i | 1.1i | <0.0050 | 0.20i | 0.03i | 9.6i | 0.03i | . | <0.0050 | . | 64 x 25 |
| 2 AA KF-380 | 380 | cast | 0.02i | 2.6i | 0.70 | 0.30 | 0.45 | 0.10i | 8.4i | 0.11i | . | 3.5i | . | 64 x 25 |
| 2 AA KG-380 | 380 | cast | 0.01i | 3.2i | 0.90 | 0.10i | 0.30 | 0.30 | 9.2i | 0.05i | . | 3.0i | . | 64 x 25 |
| 2 AA KH-380 | 380 | cast | <0.0050 | 3.8i | 1.2i | 0.05i | 0.15i | 0.40 | 9.6i | 0.02i | . | 2.2i | . | 64 x 25 |
| 2 AA SS-380 | 380 | cast | <0.0050 | 3.6i | 0.90 | 0.20i | 0.40 | 0.30 | 8.9i | 0.08i | 0.01i | 0.35 | <0.0030 | 64x25 or 25x6 |
| 2 ALC-A380.2-AD | 380.2 | cast | 0.030 | 3.63 | 0.39 | 0.026i | 0.027 | 0.033 | 9.80 | 0.03 | 0.022 | 0.031 | 0.0034 | 57 x 25 |
| 1 SRM 1256b | 380 | | 0.0572 | 3.478 | 0.865 | 0.0637 | 0.3857 | 0.4135 | 9.362 | 0.0859 | 0.0203 | 1.011 | . | 63 x 19 |
| alloy 381 | 381 | | <0.15 | 3.00-4.00 | <1.30 | <0.13 | <0.50 | <0.05 | 9.00-10.0 | <0.20 | . | <3.00 | . | |
| alloy 383 | 383 | | <0.05 | 2.00-3.00 | <1.30 | <0.10 | <0.50 | <0.30 | 9.50-11.5 | <0.05 | . | <3.00 | . | |
| alloy A383 | A383 | | <0.05 | 2.00-3.00 | <1.30 | 0.10-0.30 | <0.50 | <0.30 | 9.50-11.5 | <0.05 | . | <3.00 | . | |
| 2 AA KA-383 | 383 | cast | <0.0050 | 3.0i | 0.75i | 0.25i | 0.40i | 0.30i | 10.8 | 0.15i | <0.020 | 0.80i | <0.0030 | 64 x 25 |
| 2 AA SS-383 | 383 | cast | 0.06i | 2.5i | 1.0i | 0.25 | 0.35 | 0.10i | 11.0 | 0.08i | 0.01i | 2.5i | <0.0030 | 64x25 or 25x6 |
| alloy 384 | 384 | | <0.05 | 3.00-4.50 | <1.30 | <0.10 | <0.50 | <0.50 | 10.5-12.0 | <0.05 | . | <3.00 | . | |
| alloy A384 | A384 | | <0.05 | 3.00-4.50 | <1.30 | <0.10 | <0.50 | <0.50 | 10.5-12.0 | <0.05 | . | <1.00 | . | |
| alloy B384 | B384 | | <0.05 | 3.00-4.50 | <1.30 | 0.10-0.30 | <0.50 | <0.50 | 10.5-12.0 | <0.05 | . | <1.00 | . | |
| alloy C384 | C384 | | <0.05 | 3.00-4.50 | <1.30 | 0.10-0.30 | <0.50 | <0.50 | 10.5-12.0 | <0.05 | . | <3.00 | . | |
| 2 AA SS-384 | 384 | cast | 0.02i | 3.5i | 1.0i | 0.10i | 0.30 | 0.25 | 11.5 | 0.05i | 0.01i | 0.60 | <0.0030 | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|---------|---------|---------|-----------|---------|---------|---------|---------|--------|---------|---------|---------|---------|-------|---------|---------|-------|-------------|
| alloy 358 | . | . | . | 0.10-0.30 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-358 | . | . | . | 0.22 | . | . | . | . | 0.02i | . | . | . | . | . | . | . | . | 0.02i |
| alloy 359 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 360 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.15 | . |
| AA KA-360 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.20i | . | . | 0.03i | 0.02i |
| AA KB-360 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.10i | . | . | 0.10i | 0.02i |
| AA KC-360 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.12i | 0.02i |
| AA KD-360 | . | . | . | . | . | . | . | . | . | . | . | . | 0.003i | . | m 0.10i | . | . | <0.0050 |
| AA SS-360 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.05i | <0.0010 | <0.0010 | 0.07i | 0.02i |
| AL 415/03 | . | . | . | . | 0.0084 | 0.018 | . | 0.050 | 0.0088 | . | . | (0.007) | 0.0020 | 0.051 | 0.017 | . | 0.048 | 0.0006 |
| AL 416/04 | . | . | . | 0.0010 | . | 0.0024i | . | 0.020 | 0.0080 | . | 0.0004 | 0.0140i | 0.0025i | 0.019 | 0.0042 | . | 0.016 | 0.0103i |
| ALC-6490-AC | . | . | . | . | 0.046 | 0.010 | . | 0.45 | 0.014 | . | 0.0010 | 0.0014 | . | 0.038 | . | . | 0.039 | . |
| alloy 361 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.10 | . |
| alloy 362 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 363 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.25 | . | . | <0.25 | . |
| ALC-6252-AE | . | . | . | . | 0.029 | . | . | . | 0.011 | . | . | . | . | 0.026 | . | . | 0.029 | . |
| alloy 364 | . | . | . | 0.02-0.04 | . | . | . | . | . | . | . | . | . | . | . | . | <0.15 | . |
| alloy 365 | . | . | . | . | . | . | . | . | . | . | . | . | <0.001 | . | . | . | <0.10 | 0.010-0.020 |
| alloy 369 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.10 | . |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|---------|---------|---------|----------|---------|
| alloy 380 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| alloy A380.0, 0.1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy B380 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| alloy C380 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| alloy D380 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| AA KA-380 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.10i | . | . | 0.20i | 0.02i |
| AA KB-380 | . | . | . | . | 0.10i | . | . | . | . | . | . | . | . | 0.20i | . | . | 0.10i | 0.02i |
| AA KC-380 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.05i | . | . | 0.06i | 0.02i |
| AA KD-380 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.05i | . | . | 0.06i | 0.02i |
| AA KE-380 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i |
| AA KF-380 | . | . | . | . | 0.10i | . | . | . | . | . | . | . | . | 0.10i | . | . | 0.15i | 0.02i |
| AA KG-380 | . | . | . | . | 0.05i | . | . | . | . | . | . | . | . | 0.20i | . | . | 0.10i | 0.02i |
| AA KH-380 | . | . | . | . | 0.15i | . | . | . | . | . | . | . | . | 0.05i | . | . | 0.05i | 0.02i |
| AA SS-380 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| ALC-A380.2-AD | . | . | . | 0.0009i | 0.0078 | 0.0027i | 0.0009i | . | 0.02 | . | 0.0025i | 0.0025i | 0.0021 | 0.008 | (0.003) | . | 0.02 | 0.0031i |
| SRM 1256b | . | . | . | . | . | . | . | . | (0.0183) | . | . | . | . | 0.1075 | . | . | (0.0091) | 0.0173 |
| alloy 381 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.15 | <0.15 | . | <0.15 | . |
| alloy 383 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.15 | . |
| alloy A383 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.15 | . |
| AA KA-383 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.020 | . | <0.0010 | <0.0010 | <0.0010 | 0.10i | <0.0010 | <0.0010 | 0.20i | 0.015i |
| AA SS-383 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.20i | <0.0010 | <0.0010 | 0.15i | 0.03i |
| alloy 384 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| alloy A384 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| alloy B384 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| alloy C384 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.35 | . |
| AA SS-384 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.12i | <0.0010 | <0.0010 | 0.12i | 0.02i |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------|--------|---------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|---------------|
| alloy 385 | 385 | | <0.05 | 2.00-4.00 | <2.00 | <0.30 | <0.50 | <0.50 | 11.0-13.0 | <0.05 | . | <3.00 | . | |
| alloy 390 | 390 | | <0.05 | 4.00-5.00 | <1.30 | 0.45-0.65 | <0.10 | <0.05 | 16.0-18.0 | <0.20 | . | <0.10 | . | |
| alloy B390 | B390 | | <0.05 | 4.00-5.00 | <1.30 | 0.45-0.65 | <0.50 | <0.10 | 16.0-18.0 | <0.20 | . | <1.50 | . | |
| 2 AA SS-390 | B390 | cast | 0.05i | 4.5i | 0.90 | 0.60 | 0.25 | 0.10i | 16.7 | 0.10i | 0.01i | 0.50 | <0.0030 | 64x25 or 25x6 |
| 1 AL 471/02 | 390 | wrought | 0.052 | 4.90 | 0.84 | 0.637 | 0.113 | 0.102 | 15.8 | 0.178 | 0.077 | 0.115 | 0.058 | 60 x 25 |
| 2 ALC-A390.1-AA | 390 | cast | 0.050 | 4.84 | 0.38 | 0.62 | 0.052 | 0.051 | 17.70 | 0.13 | 0.018 | 0.047 | 0.0032 | 57 x 25 |
| alloy 391 | 391 | | <0.05 | <0.20 | <1.20 | 0.40-0.70 | <0.30 | <0.10 | 18.0-20.0 | <0.20 | . | <0.10 | . | |
| alloy 392 | 392 | | <0.05 | 0.40-0.80 | <1.50 | 0.80-1.20 | 0.20-0.60 | <0.50 | 18.0-20.0 | <0.20 | . | <0.50 | . | |
| alloy 393 | 393 | | <0.05 | 0.70-1.10 | <1.30 | 0.70-1.30 | <0.10 | 2.00-2.50 | 21.0-23.0 | 0.10-0.20 | 0.08-0.15 | <0.10 | . | |
| alloy 408.2 | 408.2 | | <0.05 | <0.10 | 0.60-1.30 | <0.10 | <0.10 | <0.10 | 8.5-9.5 | <0.10 | . | <0.10 | . | |
| alloy 409.2 | 409.2 | | <0.05 | <0.10 | 0.60-1.30 | <0.10 | <0.10 | <0.10 | 9.0-10.0 | <0.10 | . | <0.10 | . | |
| alloy 411.2 | 411.2 | | <0.05 | <0.20 | 0.60-1.30 | <0.10 | <0.10 | <0.10 | 10.0-12.0 | <0.10 | . | <0.10 | . | |
| alloy 413 | 413 | | <0.05 | <1.00 | <2.00 | <0.10 | <0.35 | <0.50 | 11.0-13.0 | <0.05 | . | <0.50 | . | |
| 1 54X G231 H2C | 413 | cast | 0.0469 | 0.868 | 0.131 | 0.159 | 0.191 | 0.171 | 11.6 | 0.085 | . | 0.397 | . | 50 x 17 |
| 2 AA SS-413 | 413 | cast | <0.0050 | 0.12i | 0.60 | 0.05i | 0.08i | 0.10i | 12.0 | 0.05i | 0.01i | 0.15i | <0.0030 | 64 x 25 |
| 2 AA KA-413 | 413 | cast | <0.0050 | 0.08i | 0.75 | 0.02i | 0.15i | 0.03i | 11.0 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA KB-413 | 413 | cast | <0.0050 | 0.05i | 0.30 | 0.03i | 0.05i | 0.05i | 12.6 | 0.10i | . | 0.08i | . | 64 x 25 |
| 2 AA KC-413 | 413 | cast | <0.0050 | 0.20i | 1.2i | 0.05i | 0.10i | 0.15i | 11.8 | 0.05i | . | 0.15i | . | 64 x 25 |
| alloy 413.2 | 413.2 | | <0.05 | <1.00 | 0.70-1.10 | <0.07 | <0.10 | <0.10 | 11.0-13.0 | <0.05 | . | <0.50 | . | |
| 2 ALC-160-DD | 413.2 | cast | 0.042 | 0.044 | 0.52 | 0.040 | 0.037 | 0.037 | 12.40 | 0.040 | . | 0.048 | . | 57 x 25 |
| 2 ALC-A413.2-AD | 413.2 | cast | 0.016 | 0.033 | 0.40 | 0.260 | 0.039 | 0.031 | 12.06 | 0.031 | 0.019 | 0.030 | 0.0034 | 57 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 435.2 | 435.2 | | <0.05 | <0.05 | <0.40 | <0.05 | <0.05 | <0.05 | 3.30-3.90 | <0.05 | . | <0.10 | . | |
| alloy 443 | 443 | | <0.25 | <0.60 | <0.80 | <0.05 | <0.50 | <0.05 | 4.50-6.00 | <0.25 | . | <0.50 | . | |
| alloy 443.2 | 443.2 | | <0.05 | <0.10 | <0.60 | <0.05 | <0.10 | <0.05 | 4.50-6.00 | <0.20 | . | <0.10 | . | |
| alloy C443 | C443 | | <0.05 | <0.60 | <2.00 | <0.10 | <0.35 | <0.50 | 4.50-6.00 | <0.25 | . | <0.50 | . | |
| alloy C443.2 | C443.2 | | <0.05 | <0.10 | 0.70-1.10 | <0.05 | <0.10 | <0.05 | 4.50-6.00 | <0.05 | . | <0.10 | . | |
| 2 AA KA-443 | 443 | cast | 0.05i | 0.05i | 0.65 | 0.08i | 0.15i | 0.08i | 4.5i | 0.04i | . | 0.15i | . | 64 x 25 |
| 2 AA KB-443 | 443 | cast | <0.0050 | 0.15i | 0.30 | 0.03i | 0.05i | 0.03i | 6.0i | 0.15i | . | 0.05i | . | 64 x 25 |
| 2 AA KC-443 | 443 | cast | <0.0050 | 0.15i | 1.1i | 0.05i | 0.10i | 0.10i | 5.1i | 0.10i | . | 0.15i | . | 64 x 25 |
| 2 AA SS-443 | 443 | cast | <0.0050 | 0.08i | 0.50 | 0.05i | 0.10i | 0.05i | 5.5i | 0.11i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| 2 ALC-443.2-AC | 443.2 | cast | 0.027 | 0.048 | 0.35 | 0.0022i | 0.046 | 0.028 | 5.3i | 0.155 | 0.024 | 0.041 | 0.0026 | 57 x 25 |
| alloy 444 | 444 | | <0.05 | <0.25 | <0.60 | <0.10 | <0.35 | <0.05 | 6.50-7.50 | <0.25 | . | <0.35 | . | |
| 2 AA SS-A444 | A444 | cast | <0.0050 | 0.12i | 0.15i | <0.0050 | 0.05i | 0.03i | 7.1i | 0.12i | 0.01i | <0.0050 | <0.0030 | 64 x 25 |
| alloy 445.2 | 445.2 | | <0.05 | <0.10 | 0.60-1.30 | <0.10 | <0.10 | <0.10 | 6.50-7.50 | <0.10 | . | <0.10 | . | |
| alloy 511 | 511 | | <0.05 | <0.15 | <0.50 | 3.50-4.50 | <0.35 | <0.05 | 0.30-0.70 | <0.25 | . | <0.15 | . | |
| 2 ALC-A320-AC | 511.2 | cast | 0.020 | 0.057 | 0.20 | 4.10 | 0.036 | 0.032 | 0.54 | 0.15 | 0.012 | 0.047 | . | 57 x 25 |
| alloy 512 | 512 | | <0.25 | <0.35 | <0.60 | 3.50-4.50 | <0.80 | <0.05 | 1.40-2.20 | <0.25 | . | <0.35 | . | |
| 3 V 2550 | 512 | cast | <0.01 | 0.31 | 0.20 | 4.48 | 0.025 | <0.01 | 1.73 | 0.050 | <0.01 | 0.022 | <0.01 | 60 x 20 |
| alloy 513 | 513 | | <0.05 | <0.10 | <0.40 | 3.50-4.50 | <0.30 | <0.05 | <0.30 | <0.20 | . | 1.40-2.20 | . | |
| 2 AA SS-513 | 513 | cast | 0.03i | 0.05i | 0.30 | 4.0i | 0.08i | 0.03i | 0.20i | 0.03i | 0.01i | 1.8i | <0.0030 | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|---------------|---------|---------|---------|---------|---------|---------|---------|----------|--------|---------|---------|---------|---------|---------|---------|---------|---------|----------|
| alloy 385 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.30 | . |
| alloy 390 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy B390 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-390 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | 0.01i | 0.08i | <0.0010 | <0.0010 | 0.08i | <0.0050 |
| AL 471/02 | . | . | . | . | . | 0.0050 | . | . | 0.0098 | . | . | . | 0.0019 | 0.054 | . | . | 0.053 | . |
| ALC-A390.1-AA | . | . | . | 0.0011 | 0.0029 | 0.0016 | 0.0014 | (0.0016) | 0.016 | . | . | . | 0.0037 | 0.0035 | 0.0028 | . | 0.046 | . |
| alloy 391 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 392 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.30 | . |
| alloy 393 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 408.2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 409.2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 411.2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 413 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.15 | . |
| 54X G231 H2C | . | . | . | 0.0146 | . | . | . | . | . | . | . | . | . | 0.082 | . | . | 0.127 | (0.0006) |
| AA SS-413 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.012 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| AA KA-413 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.04i | . | . | 0.04i | 0.02i |
| AA KB-413 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.12i | . | . | 0.12i | 0.02i |
| AA KC-413 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.08i | 0.02i |
| alloy 413 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.10 | . |
| ALC-160-DD | . | . | . | . | 0.040 | <0.001 | . | . | . | . | . | (0.001) | . | 0.042 | . | . | 0.042 | . |
| ALC-A413.2-AD | . | . | . | 0.0009 | 0.0069 | 0.0025i | 0.0014 | . | 0.020 | . | 0.0029i | 0.0040i | 0.0026 | 0.0080 | 0.0039 | . | 0.014 | 0.064i |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 435.2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 443 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 443.2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy C443 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy C443.2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-443 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | . | . | 0.02i | 0.02i |
| AA KB-443 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.05i | . | . | 0.05i | 0.02i |
| AA KC-443 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.20i | . | . | 0.15i | 0.02i |
| AA SS-443 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| ALC-443.2-AC | . | . | . | 0.0010 | 0.0085i | 0.0024i | 0.0010 | . | 0.021 | . | 0.0017i | . | 0.0032 | 0.0073 | 0.0033 | . | 0.012 | 0.0038i |
| alloy 444 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-A444 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | 0.02i |
| alloy 445.2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 511 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-A320-AC | . | . | . | 0.005 | 0.037 | . | . | . | 0.018 | . | . | . | . | 0.042 | . | . | 0.038 | . |
| alloy 512 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 2550 | . | . | . | 0.0040 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 513 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-513 | <0.0010 | <0.0010 | <0.0010 | 0.0001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | <0.001 |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------|-------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|-----------|---------|-------------|
| alloy 514 | 514 | | <0.05 | <0.15 | <0.50 | 3.50-4.50 | <0.35 | <0.05 | <0.35 | <0.25 | . | <0.15 | . | |
| 2 AA KA-514 | 514 | cast | <0.0050 | 0.10i | 0.35 | 3.5i | 0.05i | <0.0050 | 0.08i | 0.16i | . | <0.0050 | . | 64 x 25 |
| 2 AA KB-514 | 514 | cast | <0.0050 | 0.02i | 0.10i | 4.5i | 0.20i | <0.0050 | 0.25 | 0.05i | . | <0.0050 | 0.06i | 64 x 25 |
| 2 AA SS-514 | 514 | cast | 0.03i | 0.05i | 0.25 | 4.1i | 0.12i | 0.03i | 0.15i | 0.12i | 0.01i | 0.08i | <0.0030 | 64 x 25 |
| 1 AL 531/02 | 514 | cast | 0.052 | 0.078 | 0.149 | 3.72 | 0.249 | 0.053 | 0.140 | 0.101 | 0.0083 | 0.154 | . | 60 x 25 |
| 1 AL 532/01 | 514 | cast | 0.0050 | 0.012 | 0.011 | 4.33 | 0.0009 | 0.0043 | 0.009 | 0.0005 | 0.0003 | 0.0008 | <0.0002 | 60 x 25 |
| 1 AL 536/01 | 514 | cast | 0.055 | 0.031 | 0.24 | 4.40 | 0.305 | 0.010 | 0.120 | 0.049 | . | 0.052 | . | 60 x 25 |
| alloy 515 | 515 | | <0.05 | <0.20 | <1.30 | 2.50-4.00 | 0.40-0.60 | <0.05 | 0.50-1.00 | <0.05 | . | <0.10 | . | |
| 2 ALC-B320-AA | 515.2 | cast | 0.032 | 0.054 | 0.80 | 3.38 | 0.54 | 0.029 | 0.83 | 0.047 | 0.011 | 0.041 | . | 57 x 25 |
| alloy 516 | 516 | | <0.05 | <0.30 | 0.35-1.00 | 2.50-4.50 | 0.15-0.40 | 0.25-0.40 | 0.30-1.50 | 0.10-0.20 | . | <0.20 | . | |
| alloy 518 | 518 | | <0.05 | <0.25 | <1.80 | 7.50-8.50 | <0.35 | <0.15 | <0.35 | <0.05 | . | <0.15 | . | |
| 2 AA KA-518 | 518 | cast | <0.0050 | 0.08i | 1.0i | 8.1i | 0.05i | 0.05i | 0.20i | 0.01i | . | 0.10i | . | 64 x 25 |
| alloy 520 | 520 | | <0.05 | <0.25 | <0.30 | 9.50-10.6 | <0.15 | <0.05 | <0.25 | <0.25 | . | <0.15 | . | |
| 2 511X G10H 4C | 520 | cast | 0.083 | 0.163 | 0.193 | 10.24 | 0.228 | 0.117 | 0.244 | 0.155 | . | 0.117 | . | ~40 x ~15 |
| 2 AA SS-520 | 520 | cast | <0.0050 | 0.12i | 0.20i | 10.2 | 0.05i | <0.0050 | 0.15i | 0.10i | 0.01i | 0.04i | <0.0030 | 64 x 25 |
| 2 AA KA-520 | 520 | cast | <0.0050 | 0.17i | 0.10i | 9.5i | 0.02i | <0.0050 | 0.20i | 0.05i | . | 0.08i | . | 64 x 25 |
| 2 AA KB-520 | 520 | cast | . | 0.08i | 0.30 | 10.6 | 0.08i | . | 0.08i | 0.01i | . | 0.02i | . | 64 x 25 |
| alloy 535 | 535 | | <0.05 | <0.05 | <0.15 | 6.20-7.50 | 0.10-0.25 | <0.05 | <0.15 | 0.10-0.25 | . | <0.05 | . | |
| alloy A535 | A535 | | <0.05 | <0.10 | <0.20 | 6.50-7.50 | 0.10-0.25 | <0.05 | <0.20 | <0.25 | . | <0.05 | . | |
| alloy B535 | B535 | | <0.05 | <0.10 | <0.15 | 6.50-7.50 | <0.05 | <0.05 | <0.15 | 0.10-0.25 | . | <0.05 | . | |
| 2 AA SS-535 | 535 | cast | 0.02i | 0.03i | 0.10i | 7.0i | 0.18i | 0.02i | 0.10i | 0.18i | 0.01i | 0.03i | <0.0030 | 64 x 25 |
| 2 ALC-A535.0-AA | A535 | cast | 0.053 | 0.053 | 0.17 | 7.30 | 0.17 | 0.052 | 0.12 | 0.16 | 0.020 | 0.044 | 0.0048 | 57 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 705 | 705 | | 0.20-0.40 | <0.20 | <0.80 | 1.40-1.80 | 0.40-0.60 | <0.05 | <0.20 | <0.25 | . | 2.70-3.30 | . | |
| 1 AL 711/02 | 705 | cast | 0.0092 | 0.049 | 0.452 | 4.45 | 0.204 | . | 0.40 | 0.106 | . | 1.30 | . | 60 x 25 |
| 1 AL 712/02 | 705 | cast | . | 0.0295 | 0.191 | 3.64 | 0.158 | . | 0.131 | 0.027 | . | 2.29 | . | 60 x 25 |
| 1 AL 713/01 | 705 | cast | 0.19 | 0.10 | 0.35 | 1.67 | 0.53 | . | 0.33 | 0.017 | . | 4.60 | 0.17 | 60 x 25 |
| 1 AL 714/02 | 705 | cast | 0.092 | 0.0105 | 0.10 | 0.98 | 0.013 | 0.011 | 0.10 | 0.057 | . | 3.65 | . | 60 x 25 |
| 1 AL 715/02 | 705 | cast | (0.33) | 0.30 | 0.60 | 0.45 | 0.351 | 0.050 | 0.20 | 0.15 | . | 5.40 | . | 60 x 25 |
| 1 AL 716/02 | 705 | cast | 0.036 | 0.051 | 0.26 | 3.50 | 0.50 | 0.050 | 0.10 | 0.033 | . | 4.50 | . | 60 x 25 |
| alloy 707 | 707 | | 0.20-0.40 | <0.20 | <0.80 | 1.80-2.40 | 0.40-0.60 | <0.05 | <0.20 | <0.25 | . | 4.00-4.50 | . | |
| 2 ALC-6392-AC | 707 | wrought | 0.051 | 0.10 | 0.11 | 1.26 | 0.055 | 0.046 | 0.10 | 0.043 | 0.011 | 4.26 | . | 57 x 25 |
| alloy 710 | 710 | | <0.05 | 0.35-0.60 | <0.50 | 0.60-0.80 | <0.05 | <0.05 | <0.15 | <0.25 | . | 6.00-7.00 | . | |
| 2 AA SS-711 | 711 | cast | 0.03i | 0.50 | 0.90 | 0.40 | 0.03i | 0.03i | 0.15i | 0.10i | 0.01i | 6.5i | <0.0030 | 64 x 25 |
| alloy 712 | 712 | | 0.40-0.60 | <0.25 | <0.50 | 0.50-0.65 | <0.10 | <0.05 | <0.30 | 0.15-0.25 | . | 5.00-6.50 | . | |
| 2 AA SS-712 | 712 | cast | 0.50 | 0.15i | 0.50 | 0.65 | 0.10i | <0.0050 | 0.20i | 0.15i | 0.01i | 5.9i | <0.0030 | 64 x 25 |
| alloy 713 | 713 | | <0.35 | 0.40-1.00 | <1.10 | 0.20-0.50 | <0.60 | <0.15 | <0.25 | <0.25 | . | 7.00-8.00 | . | |
| 2 AA SS-713 | 713 | cast | 0.06i | 0.80 | 0.55 | 0.40 | 0.20i | 0.05i | 0.12i | 0.20i | 0.01i | 7.6i | <0.0030 | 64 x 25 |
| alloy 771 | 771 | | 0.06-0.20 | <0.10 | <0.15 | 0.80-1.00 | <0.10 | <0.05 | <0.15 | 0.10-0.20 | . | 6.50-7.50 | . | |
| 2 ALC-6348-AC | 771.2 | wrought | 0.180 | 0.082 | 0.093 | 0.91 | 0.087 | 0.052 | 0.081 | 0.17 | 0.023 | 6.94 | 0.0031 | 57 x 25 |
| alloy 772 | 772 | | 0.06-0.20 | <0.10 | <0.15 | 0.60-0.80 | <0.10 | <0.05 | <0.15 | 0.10-0.20 | . | 6.00-7.00 | . | |
| alloy 850 | 850 | | <0.05 | 0.70-1.30 | <0.70 | <0.10 | <0.10 | 0.70-1.30 | <0.70 | <0.20 | . | <0.05 | . | |
| 2 AA SS-850 | 850 | cast | <0.0050 | 1.1i | 0.40 | <0.0050 | 0.05i | 1.1i | 0.50 | 0.12i | 0.01i | <0.0050 | <0.0030 | 64 x 25 |
| alloy 851 | 851 | | <0.05 | 0.70-1.30 | <0.70 | <0.10 | <0.10 | 0.30-0.70 | 2.00-3.00 | <0.20 | . | <0.05 | . | |
| 2 AA SS-851 | 851 | cast | <0.0050 | 1.0i | 0.45 | 0.03i | 0.05i | 0.50 | 2.5i | 0.08i | 0.01i | 0.03i | <0.0030 | 64 x 25 |
| alloy 852 | 852 | | <0.05 | 1.70-2.30 | <0.70 | 0.60-0.90 | <0.10 | 0.90-1.50 | <0.40 | <0.20 | . | <0.05 | . | |
| 2 AA SS-852 | 852 | cast | <0.0050 | 2.0i | 0.35 | 0.84 | 0.05i | 1.2i | 0.22i | 0.04i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|---------------|---------|---------|---------|-----------|----------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| alloy 514 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KA-514 | . | . | . | 0.001i | . | . | . | . | . | . | . | . | . | 0.03i | . | . | 0.03i | . |
| AA KB-514 | . | . | . | 0.003i | . | . | . | . | . | . | . | . | . | 0.06i | . | . | 0.06i | . |
| AA SS-514 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | <0.0010 |
| AL 531/02 | . | . | . | 0.0021 | 0.0183 | . | . | . | . | . | 0.00064 | 0.0011 | . | 0.0104 | . | . | . | . |
| AL 532/01 | . | . | . | 0.00050 | . | . | . | . | 0.0015 | . | . | (0.006) | 0.0012 | 0.0044 | . | . | 0.0038 | . |
| AL 536/01 | . | . | . | . | (0.0019) | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 515 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-B320-AA | . | . | . | . | 0.042 | . | . | . | 0.017 | . | . | . | . | 0.041 | . | . | 0.040 | . |
| alloy 516 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.10 | . | . | <0.10 | . |
| alloy 518 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.15 | . |
| AA KA-518 | . | . | . | 0.004i | . | . | . | . | . | . | . | . | . | . | . | . | 0.05i | . |
| alloy 520 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 511X G10H 4C | . | . | . | 0.0061 | . | . | . | . | . | . | . | . | . | 0.080 | . | . | 0.075 | . |
| AA SS-520 | <0.0010 | <0.0010 | <0.0010 | 0.0001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | <0.0010 |
| AA KA-520 | . | . | . | 0.002i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA KB-520 | . | . | . | 0.005i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 535 | . | . | <0.005 | 0.003-0.0 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy A535 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy B535 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-535 | <0.0010 | <0.0010 | <0.0010 | 0.0001 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0030 | <0.0010 |
| ALC-A535.0-AA | . | . | . | 0.0012 | 0.043i | 0.0025i | 0.0012 | . | 0.021 | . | 0.0033 | 0.0019i | 0.0010i | 0.044 | 0.0024 | . | 0.047 | 0.0025i |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|---------|---------|---------|---------|---------|---------|---------|---------|-------|---------|---------|---------|---------|---------|---------|---------|-----------|---------|
| alloy 705 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 711/02 | . | . | . | 0.0050 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 712/02 | . | . | . | 0.0022 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 713/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 714/02 | . | . | . | 0.0005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 715/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 716/02 | . | . | . | 0.0010 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 707 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-6392-AC | . | . | . | (0.006) | 0.042 | . | . | . | 0.021 | . | . | . | . | 0.044 | . | . | 0.042 | . |
| alloy 710 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-711 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 712 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-712 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 713 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-713 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 771 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-6348-AC | . | . | . | 0.0012 | 0.055 | 0.0032 | 0.0012 | . | 0.020 | . | 0.0024 | 0.0028i | 0.0032i | 0.044 | 0.0041 | . | 0.047 | 0.0034 |
| alloy 772 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 850 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5.50-7.00 | . |
| AA SS-850 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.012 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 6.3i | <0.0010 |
| alloy 851 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5.50-7.00 | . |
| AA SS-851 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.015 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 6.3i | <0.0010 |
| alloy 852 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5.50-7.00 | . |
| AA SS-852 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 6.3i | <0.0010 |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|--------|-------------------------|---------|-----------|---------|---------|----------|----------|-----------|---------|----------|---------|----------|---------------|
| alloy 853 | 853 | | <0.05 | 3.00-4.00 | <0.70 | <0.05 | <0.50 | <0.05 | 5.50-6.50 | <0.20 | . | <0.05 | . | |
| 2 AA SS-1000 | 1000 | cast | <0.0001 | <0.0001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0002 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 64 x 25 |
| 2 AA WA-1000 | 1000 | cast | 0.01i | 0.01i | 0.10i | 0.01i | 0.01i | 0.01i | 0.10i | 0.01i | 0.01i | 0.01i | 0.01i | 64 x 25 |
| 2 AA WB-1000 | 1000 | cast | 0.03i | 0.03i | 0.10i | 0.03i | 0.03i | 0.03i | 0.10i | 0.03i | 0.02i | 0.03i | . | 64 x 25 |
| 2 AA WC-1000 | 1000 | cast | 0.08i | 0.08i | 0.10i | 0.08i | 0.08i | 0.08i | 0.10i | 0.08i | 0.04i | 0.08i | . | 64 x 25 |
| 2 AA WD-1000 | 1000 | cast | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | . | 64 x 25 |
| 2 AA WE-1000 | 1000 | cast | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | . | 64 x 25 |
| alloy 1050 | 1050 | Al > 99.50 | <0.03 | <0.05 | <0.40 | <0.05 | <0.05 | <0.03 | <0.25 | <0.03 | <0.05 | <0.05 | . | |
| 2 AA SS-1050 | 1000 | cast | <0.0050 | 0.04i | 0.30 | <0.0050 | <0.0050 | <0.0050 | 0.12i | <0.0050 | 0.01i | <0.0050 | 0.001i | 64 x 25 |
| 2 AA ST1-1050 | 1050 | cast | 0.02i | 0.03i | 0.33 | 0.03i | 0.04i | 0.01i | 0.015 | 0.03i | 0.025 | 0.04i | 0.004i | 64 x 25 |
| 2 AJ 003 | 1050 | cast | 0.032 | 0.035 | 0.107 | 0.025 | 0.032 | 0.031 | 0.110 | 0.026 | 0.029 | 0.055 | 0.010 | 55 x 25 |
| 1 AL 134/05 | 1050 | cast, Ba | 0.0002 | 0.0038 | 0.286 | 0.0025 | 0.0032 | 0.0011 | 0.152 | <0.0001 | <0.0001 | 0.0012 | 0.0002 | 60 x 25 |
| 1 AL 135/02 | 1050 | cast, In | 0.015 | 0.020 | 0.29 | 0.020 | 0.020 | 0.016 | 0.052 | 0.023 | 0.0062 | 0.0080 | 0.0050 | 60 x 25 |
| 2 ALC-1050-AK | 1050 | wrought Mo | 0.040 | 0.0334 | 0.297 | 0.0302i | 0.0317 | 0.0215 | 0.169 | 0.0304 | 0.0203 | 0.0427 | 0.0032 | 57 x 25 |
| 1 V 1413-1 | 1050 | cast | 0.022 | 0.038 | 0.35 | 0.031 | 0.017 | 0.021 | 0.14 | 0.028 | 0.020 | 0.032 | 0.0031 | 60 x 20 |
| alloy 1075 | 1075 | Al > 99.75 | <0.03 | <0.04 | <0.20 | <0.03 | <0.03 | <0.03 | <0.20 | <0.03 | <0.05 | <0.04 | . | |
| 2 AA SS-1075 | 1075 | cast | <0.0050 | <0.0050 | 0.12i | <0.0050 | <0.0050 | <0.0050 | 0.07i | <0.0050 | 0.03i | <0.0050 | 0.003i | 64 x 25 |
| 1 AL 123/04 | 1075 | cast | 0.032i | 0.032i | 0.107 | 0.0267 | 0.0301 | 0.0309 | 0.073 | 0.0312 | 0.0311 | 0.0301 | 0.0311 | 60 x 25 |
| 1 PY 768 | 1075 | cast | 0.0056 | 0.0006 | 0.1935 | 0.0093 | 0.0203 | 0.0051 | 0.0994 | 0.0104 | 0.0138 | 0.0003 | 0.0061 | 55 x 30 |
| 1 PY 769 | 1075 | cast | 0.0056 | 0.0004 | 0.2009 | 0.0093 | 0.0204 | 0.0051 | 0.0999 | 0.0105 | 0.0139 | 0.0002 | 0.0040 | 55 x 30 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 1080 | 1080 | Al > 99.80 | <0.02 | <0.03 | <0.15 | <0.02 | <0.02 | <0.02 | <0.15 | <0.03 | <0.05 | <0.03 | . | |
| 3 AJ 002 | 1080 | cast | 0.011 | 0.0099 | 0.043 | 0.0082 | 0.0098 | 0.010 | 0.039 | 0.0099 | 0.010 | 0.010 | . | 55 x 25 |
| 1 AL 131/03 | 1080 | cast | 0.0096 | 0.0210 | 0.123 | 0.0211 | 0.0123 | 0.0025 | 0.112 | 0.0045 | 0.0068 | 0.0118 | 0.0010 | 60 x 25 |
| 1 PY 122C/01 | 1080 | cast | 0.0027 | 0.0148 | 0.0981 | 0.0042 | 0.0104 | 0.0024 | 0.0585 | 0.0038 | 0.0018 | 0.0153 | 0.00010 | 55 x 30 |
| 3 V 1401 | 1080 | cast | 0.0006 | 0.019 | 0.038 | 0.001 | 0.0015 | 0.0011 | 0.062 | 0.0022 | 0.0025 | 0.012 | 0.0017 | 60 x 20 |
| 1 V 1402-2 | 1080 | cast, In, Tl | 0.0005 | 0.012 | 0.048 | 0.0020 | 0.0023 | 0.0013 | 0.064 | 0.017 | 0.0044 | 0.016 | 0.0009 | 60 x 20 |
| 3 V 1403 | 1080 | cast, last | 0.0007 | 0.014 | 0.092 | 0.0084 | 0.0066 | 0.0024 | 0.089 | 0.0025 | 0.0097 | 0.024 | 0.002 | 60 x 20 |
| 1 V 1410-3 | 1080 | cast, Ba, Ce, In, Tl | 0.00418 | 0.0118 | 0.1068 | 0.00342 | 0.00717 | 0.00549 | 0.0619 | 0.00289 | 0.00518 | 0.0119 | 0.00278 | 60 x 20 |
| alloy 1100 | 1100 | Al > 99.00 | <0.05 | 0.05-0.20 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | . | <0.10 | . | |
| 2 AA SS-1100 | 1100 | cast | <0.0050 | 0.15i | 0.50 | 0.03i | 0.04i | <0.0050 | 0.18i | 0.02i | 0.01i | 0.08i | <0.0030 | 64x25 or 25x6 |
| 2 AA WA-1100 | 1100 | cast | <0.0050 | 0.20i | 0.30 | 0.05i | 0.08i | <0.0050 | 0.12i | 0.04i | . | 0.02i | . | 64 x 25 |
| 2 AA WB-1100 | 1100 | cast | <0.0050 | 0.10i | 0.60 | 0.01i | 0.02i | <0.0050 | 0.22i | 0.01i | . | 0.04i | . | 64 x 25 |
| 2 ALC-1100-AK | 1100 | wrought | 0.018 | 0.084 | 0.60 | 0.0123 | 0.029 | 0.030 | 0.18 | 0.030 | 0.0178 | 0.031 | 0.0032 | 57 x 25 |
| 2 ALC-X1100-AH | 1100 M | wrought | 0.016 | 0.088 | 0.42 | 0.015 | 0.037 | 0.031 | 0.43 | 0.028 | 0.0215 | 0.026 | 0.0032 | 57 x 25 |
| 2 ALC-1100-AY | 1100 | wrought | 0.019 | 0.084 | 0.59 | 0.0096i | 0.029 | 0.031 | 0.17 | 0.030 | 0.02 | 0.032 | 0.0034 | 57 x 25 |
| 1 V 1209-1 | 1100 | cast, Ba, In | <0.0006 | 0.074 | 0.0018 | 0.0002 | 0.0001 | 0.02 | 0.013 | <0.0002 | . | 0.0002 | <0.0001 | 60 x 20 |
| alloy 1120 | 1120 | Al > 99.20, Ti+V <0.02 | <0.01 | 0.05-0.35 | <0.40 | <0.20 | <0.01 | <0.03 | <0.10 | . | . | <0.05 | . | |
| alloy 1170 | 1170 | AL > 99.70, Fe+Si <0.30 | <0.03 | <0.03 | . | <0.02 | <0.03 | . | . | <0.03 | <0.05 | <0.04 | . | |
| 2 ALC-1170-AN | 1170 | wrought Ba In Mo Tl | 0.0325 | 0.0301 | 0.178 | 0.0258i | 0.0330 | 0.029 | 0.087 | 0.0306 | 0.020 | 0.0323 | 0.0031 | 57 x 25 |
| alloy 1188 | 1188 | Al > 99.88 | <0.01 | <0.005 | <0.06 | <0.01 | <0.01 | <0.01 | <0.06 | <0.01 | <0.05 | <0.03 | . | |
| 2 AA SS-1188 | 1188 | cast | <0.0050 | <0.0050 | 0.06i | 0.01i | 0.005i | <0.0050 | 0.04i | 0.01i | 0.01i | 0.01i | <0.0010 | 64 x 25 |
| 1 V 1002-1 | 1188 | cast, Ba, Ce | <0.0002 | 0.00029 | 0.00106 | 0.00079 | 0.0002 | <0.0002 | 0.0071 | <0.0001 | <0.00005 | 0.00157 | <0.00005 | 60 x 20 |
| 3 V 1066 | 1188 | cast, Ba, Ce | 0.00001 | 0.00003 | 0.00005 | 0.00019 | <0.00003 | <0.00002 | 0.00012 | 0.00002 | <0.00001 | 0.00001 | 0.00006 | 60 x 20 |
| 1 V 1200-1 | 1188 | cast, Ba, Ce, In | 0.0004 | 0.0054 | 0.0027 | 0.0011 | 0.0107 | 0.0004 | 0.010 | 0.0001 | <0.0001 | 0.0062 | <0.0001 | 60 x 20 |
| 1 V 1202-1 | 1188 | cast, last | <0.0002 | 0.0007 | 0.024 | 0.0021 | 0.0004 | 0.0022 | 0.014 | <0.0002 | <0.0003 | 0.0021 | <0.0002 | 60 x 20 |
| 1 V 1411-1 | 1188 | cast, In: 0.0010 | 0.00100 | 0.00119 | 0.00078 | 0.00020 | 0.00042 | 0.00355 | 0.0238 | <0.0002 | 0.00080 | 0.00274 | 0.00017 | 60 x 20 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|---------|----------|----------|---------|-----------|----------|
| alloy 853 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5.50-7.00 | . |
| AA SS-1000 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| AA WA-1000 | . | . | . | . | 0.01i | . | . | . | . | . | . | . | . | 0.01i | . | . | 0.01i | . |
| AA WB-1000 | . | . | . | . | 0.03i | . | . | . | . | . | . | . | . | 0.03i | . | . | 0.03i | . |
| AA WC-1000 | . | . | . | . | 0.08i | . | . | . | . | . | . | . | . | 0.08i | . | . | 0.08i | . |
| AA WD-1000 | . | . | . | . | 0.004i | . | . | . | 0.004i | . | . | . | . | 0.004i | . | . | 0.004i | . |
| AA WE-1000 | . | . | . | . | 0.01i | . | . | . | 0.01i | . | . | . | . | 0.01i | . | . | 0.01i | . |
| alloy 1050 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-1050 | 0.001i | 0.008i | <0.0005 | 0.0005 | 0.001i | <0.0005 | 0.001i | 0.001i | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.003i | 0.001i | <0.0005 | <0.001i | 0.001i |
| AA S11-1050 | . | 0.0005 | <0.0010 | 0.0002 | 0.03i | 0.002i | 0.0005 | 0.0005 | 0.025 | 0.0002 | 0.001i | 0.0015 | 0.0005 | 0.02i | 0.003i | . | 0.02i | 0.0012 |
| AJ 003 | . | . | . | 0.0016 | 0.0097 | 0.0007 | . | . | 0.029 | . | . | . | . | 0.020 | 0.009 | . | 0.020 | . |
| AL 134/05 | . | . | 0.0055 | 0.00050 | . | 0.0004i | 0.0010 | 0.0010 | 0.0010 | . | 0.00009i | 0.0044i | . | 0.0011 | . | . | 0.0013 | 0.0006i |
| AL 135/02 | . | . | . | . | 0.0020 | . | . | 0.0010 | 0.013 | . | . | . | . | 0.0023 | . | . | 0.0052 | . |
| ALC-1050-AK | . | . | 0.0002 | 0.0010i | 0.0074 | 0.0020i | 0.0012 | 0.0001 | 0.026 | . | 0.0027i | 0.0024i | 0.0018 | 0.0079 | 0.0028 | . | 0.015 | 0.0019i |
| V 1413-1 | . | . | 0.0012 | 0.0013 | 0.0058 | 0.0013 | 0.0016 | 0.0013 | 0.02 | . | 0.0013 | 0.0017 | 0.0023 | 0.0073 | 0.003 | . | 0.0050 | 0.0006 |
| alloy 1075 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-1075 | 0.003i | <0.0005 | <0.0005 | 0.0015 | <0.0050 | <0.0005 | 0.003i | 0.003i | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.003i | 0.003i | <0.0005 | <0.001i | 0.003i |
| AL 123/04 | 0.0048 | . | . | 0.0008 | 0.0206 | . | 0.0096 | 0.0096 | 0.0207 | . | . | 0.0003i | . | 0.0109 | . | . | 0.0158 | . |
| PY 768 | . | . | . | . | . | . | 0.0004 | 0.0041 | <0.0004 | . | . | . | . | 0.0040 | 0.0093 | . | 0.0040 | . |
| PY 769 | . | . | . | . | . | . | 0.0004 | 0.0034 | <0.0004 | . | . | . | . | 0.0040 | 0.0095 | . | 0.0040 | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 1080 | . | . | . | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| AJ 002 | . | . | . | . | . | . | . | . | 0.0091 | . | . | . | . | 0.0096 | . | . | 0.0096 | . |
| AL 131/03 | . | . | (0.0003) | 0.00024 | 0.0012 | 0.0034i | 0.0009 | . | 0.0054 | . | 0.00009i | 0.0006i | 0.0010 | 0.0058 | 0.0003 | . | 0.0024 | . |
| PY 122C/01 | . | . | . | . | . | . | 0.00020 | 0.0008 | 0.0009 | . | . | . | . | 0.0146 | 0.0032 | . | 0.0147 | . |
| V 1401 | . | . | . | . | . | <0.0002 | . | . | 0.004 | . | . | <0.0001 | . | 0.0006 | . | . | . | . |
| V 1402-2 | 0.0005 | . | 0.0006 | . | . | <0.0001 | 0.0009 | 0.0005 | 0.0078 | . | <0.0002 | <0.0002 | <0.0004 | 0.0007 | <0.0005 | 0.0017 | 0.0008 | <0.0002 |
| V 1403 | <0.0002 | . | 0.0006 | . | . | <0.0002 | . | . | 0.0054 | <0.0002 | . | . | <0.0004 | 0.0005 | . | . | . | . |
| V 1410-3 | 0.00121 | 0.00204 | 0.00032 | 0.00073 | 0.0040 | 0.00021 | 0.00308 | 0.00504 | 0.0238 | 0.00152 | 0.0016 | 0.0042 | 0.00096 | 0.00497 | 0.0077 | . | 0.0048 | 0.00019 |
| alloy 1100 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-1100 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA WA-1100 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA WB-1100 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-1100-AK | . | . | . | 0.0011 | 0.0056 | 0.0013i | 0.0011 | . | 0.02 | . | 0.0019i | 0.0045i | 0.0023 | 0.0085 | 0.0016 | . | 0.014 | 0.0018i |
| ALC-X1100-AH | . | . | . | 0.0010 | 0.016 | 0.0021i | 0.0010 | . | 0.022 | . | 0.0014i | 0.0021i | 0.0038 | 0.013 | 0.0039 | . | 0.015 | 0.0024i |
| ALC-1100-AY | . | . | . | 0.0009 | 0.0048 | 0.0008i | 0.0013 | . | 0.02 | . | 0.0018i | 0.0057i | 0.0027 | 0.0082 | 0.0021 | . | 0.014 | 0.0016i |
| V 1209-1 | 0.0001 | . | 0.005 | <0.0001 | 0.053 | <0.0002 | <0.0001 | <0.0001 | 0.0050 | <0.0001 | <0.0001 | <0.0002 | 0.0056 | . | 0.040 | . | 0.022 | <0.0001 |
| alloy 1120 | . | . | <0.02 | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| alloy 1170 | . | . | . | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| ALC-1170-AN | <0.0001 | <0.0001 | 0.0002 | 0.0010i | 0.0082 | 0.0021i | 0.0014 | 0.00010 | 0.0196 | <0.0001 | 0.0023i | 0.0022i | 0.0018 | 0.0093 | 0.0022 | . | 0.020 | 0.0023i |
| alloy 1188 | . | . | . | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| AA SS-1188 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| V 1002-1 | <0.00005 | <0.00005 | 0.00012 | <0.00001 | <0.0001 | 0.00028 | <0.00005 | <0.0001 | <0.00005 | . | <0.00002 | <0.0001 | 0.0005 | <0.00002 | <0.00005 | <0.0001 | <0.0001 | <0.00005 |
| V 1066 | <0.00001 | <0.00001 | <0.00003 | <0.00001 | <0.00001 | <0.00002 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00008 | <0.0002 | <0.00001 | <0.00001 | 0.00001 | <0.0003 | <0.00002 |
| V 1200-1 | <0.0001 | . | 0.0002 | <0.0001 | <0.0002 | <0.0002 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0006 | . | 0.0032 | . | <0.0002 | <0.0001 |
| V 1202-1 | . | . | 0.0002 | . | . | . | . | . | 0.0001 | . | . | . | . | . | 0.011 | . | <0.0005 | . |
| V 1411-1 | . | <0.0002 | 0.00893 | 0.00007 | 0.0118 | <0.0002 | 0.00030 | 0.00024 | 0.0307 | <0.0005 | 0.00012 | 0.00029 | <0.0004 | 0.00107 | 0.0059 | . | 0.0185 | <0.0002 |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------|--------|-------------------------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|----------|-----------|----------|-----------|----------------|
| alloy 1199 | 1199 | Al > 99.99 | <0.002 | <0.006 | <0.006 | <0.006 | <0.002 | <0.002 | <0.006 | <0.002 | <0.005 | <0.006 | . | |
| 2 AA WA-1199 | 1199 | cast | 0.001i | 0.001i | 0.002i | 0.001i | 0.001i | 0.001i | <0.0010 | 0.001i | 0.001i | 0.001i | 0.001i | 64 x 25 |
| 3 AJ 061 | 1199 | cast | <0.0001 | <0.0001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0010 | <0.0001 | <0.0001 | <0.0001 | . | 55 x 25 |
| 1 AL 112/03 | 1199 | cast, Ba, Ce, In, La, Mo, Se, | <0.00001 | <0.00004 | 0.00006 | 0.00005 | <0.00001 | <0.00001 | 0.00007 | <0.00001 | <0.00001 | 0.00001 | <0.00001 | 60 x 25 |
| 1 AL 113/03 | 1199 | cast | <0.0001 | 0.00023 | 0.0054 | 0.0008 | <0.00010 | <0.00010 | 0.0012 | <0.00011 | 0.00039 | 0.00025 | 0.0003 | 60 x 25 |
| 1 AL 114/03 | 1199 | cast, Ba Ce In La Mo Se Ta Ti | 0.0006 | 0.0018 | 0.0050 | 0.0013 | 0.0019 | 0.0009 | 0.0034 | (0.0004) | 0.00008 | <0.0002 | . | 60 x 25 |
| 1 V 1000-1 | 1199 | cast, Ba, Ce | <0.00006 | 0.00011 | 0.00027 | 0.00028 | 0.00005 | <0.00004 | 0.0012 | 0.00002 | <0.00004 | 0.00035 | <0.00002 | 60 x 20 |
| 3 V 1001 | 1199 | cast, Ba, Ce | <0.00004 | 0.00013 | 0.00086 | 0.0014 | 0.00007 | <0.00006 | 0.0048 | 0.00008 | <0.00002 | 0.0009 | <0.00001 | 60 x 20 |
| 3 V R-06 | 1199 | cast, Ce, La, Nd, Th, U | 0.00002 | 0.00018 | 0.00085 | 0.00032 | 0.00004 | 0.000011 | 0.0004 | <0.00002 | 0.000004 | 0.00061 | <0.00006 | 60 x 20 |
| 3 V R-07 | 1199 | cast, Ce, La, Nd, Th, U | 0.000003 | 0.000043 | 0.00006 | 0.000049 | 0.000009 | <0.00001 | <0.00005 | <0.00008 | <0.000005 | 0.000035 | <0.00001 | 60 x 20 |
| 3 V R-08 | 1199 | cast, Ce, La, Nd, Th, U | 0.000003 | 0.000002 | <0.00005 | 0.000016 | 0.000002 | <0.000005 | 0.00002 | <0.00002 | 0.000002 | 0.000004 | <0.000003 | 60 x 20 |
| 3 V R-09 | 1199 | cast, Ce, La, Nd, Th, U | 0.000004 | 0.00004 | 0.00005 | 0.00008 | 0.000006 | <0.00001 | <0.0001 | <0.00005 | <0.00001 | 0.00002 | <0.00002 | 60 x 20 |
| 3 V R-10 | 1199 | cast, Ce, La, Nd, Th, U | 0.000001 | 0.000026 | 0.000054 | 0.0001 | <0.000012 | <0.000001 | <0.00005 | <0.00008 | <0.000004 | 0.000009 | <0.00005 | 60 x 20 |
| 3 V R-11 | 1199 | cast, Ce, La, Nd, Th, U | 0.0000017 | 0.00004 | 0.00007 | 0.00009 | 0.000015 | 0.000001 | <0.0001 | <0.00004 | <0.00001 | <0.00002 | <0.00005 | 60 x 20 |
| 3 V R-14 | 1199 | cast, Ce, La, Nd, Th, U | 0.000037 | 0.00377 | 0.00257 | 0.000241 | 0.000076 | 0.00005 | 0.0032 | 0.000148 | 0.000061 | 0.000261 | 0.000038 | 60 x 20 |
| 3 V R-16 | 1199 | cast, Ce, La, Nd, Th, U | 0.000008 | 0.000032 | 0.00005 | 0.00019 | <0.00003 | <0.00013 | 0.00012 | 0.000017 | <0.00001 | 0.00001 | 0.00006 | 60 x 20 |
| 3 V R-20 | 1199 | cast, Ce, La, Nd, Th, U | 0.000018 | 0.00025 | 0.0002 | 0.00021 | <0.00002 | 0.000007 | 0.00035 | 0.00005 | 0.000006 | 0.000043 | . | 60 x 20 |
| 3 V R-24 | 1199 | cast, Ce, La, Nd, Th, U | 0.000002 | 0.00005 | 0.000063 | <0.0001 | <0.000012 | <0.000001 | 0.00006 | <0.00008 | <0.000002 | 0.00003 | . | 60 x 20 |
| 3 V R-27 | 1199 | cast, Ce, La, Nd, Th, U | <0.00001 | <0.00004 | <0.00005 | <0.000005 | <0.00002 | <0.00001 | <0.00008 | <0.00005 | <0.00003 | <0.00002 | <0.00002 | 60 x 20 |
| alloy 1200 | 1200 | Al > 99.00, Fe+Si <1.00 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | . | <0.10 | . | |
| 1 AL 116/04 | 1200 | cast, Ba, Ce, In, La, Mo, W | 0.0051 | 0.0070 | 0.0105 | 0.0050 | 0.0051 | 0.0049 | 0.0111 | 0.0020 | 0.0026 | 0.0052 | 0.0019 | 60 x 25 |
| 2 ALC-1200-AJ | 1200 | wrought | 0.030 | 0.031 | 0.64 | 0.024i | 0.034 | 0.029 | 0.20 | 0.030 | 0.020 | 0.061 | 0.0028 | 57 x 25 |
| 1 PY 574 | 1200 | cast | 0.00475 | 0.0094 | 0.0175 | 0.0325 | 0.0052 | 0.00556 | 0.0152 | 0.00570 | . | 0.0138 | . | 55 x 30 |
| 3 V 1003 | 1200 | cast | <0.00004 | 0.0030 | 0.0045 | 0.0005 | 0.0005 | <0.00004 | 0.0035 | <0.00003 | . | 0.0045 | . | 60 x 20 |
| 3 V 1004 | 1200 | cast | 0.00014 | 0.0036 | 0.0064 | 0.0025 | 0.0012 | 0.0014 | 0.0076 | 0.0001 | . | 0.0068 | . | 60 x 20 |
| 3 V 1005 | 1200 | cast, Ba | 0.00006 | 0.0011 | 0.0018 | 0.0018 | 0.0012 | 0.00005 | 0.0027 | <0.00002 | . | 0.0022 | . | 60 x 20 |
| 3 V 1203 | 1200 | cast | <0.0003 | 0.0021 | 0.022 | 0.0014 | 0.0014 | 0.0006 | 0.052 | 0.002 | . | 0.019 | 0.0009 | 60 x 20 |
| alloy 2001 | 2001 | | <0.10 | 5.20-6.00 | <0.20 | 0.20-0.45 | 0.15-0.50 | <0.05 | <0.20 | <0.20 | . | <0.10 | <0.05 | |
| alloy 2002 | 2002 | | <0.20 | 1.50-2.50 | <0.30 | 0.50-1.00 | <0.20 | <0.05 | 0.35-0.80 | <0.20 | . | <0.20 | . | |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 2003 | 2003 | | <0.05 | 4.00-5.00 | <0.30 | <0.02 | 0.30-0.80 | <0.05 | <0.30 | <0.15 | 0.05-0.20 | <0.10 | 0.10-0.25 | |
| alloy 2004 | 2004 | | <0.05 | 5.50-6.50 | <0.20 | <0.50 | <0.10 | <0.05 | <0.20 | <0.05 | . | <0.10 | 0.30-0.50 | |
| alloy 2005 | 2005 | | <0.10 | 3.50-5.00 | <0.70 | 0.20-1.00 | <1.00 | <0.20 | <0.80 | <0.20 | . | <0.50 | . | |
| alloy 2006 | 2006 | | <0.05 | 1.00-2.00 | <0.70 | 0.50-1.40 | 0.60-1.00 | <0.20 | 0.80-1.30 | <0.30 | . | <0.20 | . | |
| alloy 2007 | 2007 | | <0.10 | 3.30-4.60 | <0.80 | 0.40-1.80 | 0.50-1.00 | <0.20 | <0.80 | <0.20 | . | <0.80 | . | |
| 1 56X G2007A | 2007 | wrought | 0.0354 | 3.699 | 0.252 | 0.663 | 0.605 | 0.0087 | 0.328 | 0.0236 | . | 0.386 | . | ~50 x ~20 |
| 1 AL 233/03 | 2007 | cast | 0.052 | 4.32 | 0.41 | 1.19 | 0.51 | 0.013 | 0.30 | 0.029 | 0.013 | 0.21 | 0.010 | 60 x 25 |
| 2 HRT AL2016 | 2007 | cast | 0.039 | 3.68 | 0.56 | 0.72 | 0.73 | 0.021 | 0.69 | 0.038 | . | 0.29 | . | 30 x 20 |
| alloy 2008 | 2008 | | <0.10 | 0.70-1.10 | <0.40 | 0.25-0.50 | <0.30 | <0.05 | 0.50-0.80 | <0.10 | <0.05 | <0.25 | . | |
| alloy 2009 | 2009 | O: <0.60 | <0.05 | 3.20-4.40 | <0.05 | 1.00-1.60 | <0.05 | <0.05 | <0.25 | <0.05 | . | <0.10 | . | |
| alloy 2010 | 2010 | | <0.15 | 0.70-1.30 | <0.50 | 0.40-1.00 | 0.10-0.40 | <0.05 | <0.50 | <0.05 | . | <0.30 | . | |
| alloy 2011 | 2011 | | <0.05 | 5.00-6.00 | <0.70 | <0.05 | <0.05 | <0.05 | <0.40 | <0.05 | . | <0.30 | . | |
| 1 56X G2000J 5C | 2011 M | cast | 0.0078 | 5.52 | 0.98 | 0.39 | 0.007 | 0.204 | 0.321 | 0.063 | 0.027 | 0.368 | 0.064 | 50x20 or 40x15 |
| 1 56X G2011A | 2011 | wrought | 0.0031 | 5.70 | 0.632 | 0.0102 | 0.0183 | 0.0044 | 0.089 | 0.0121 | . | 0.0188 | . | ~50 x ~20 |
| 2 AA SS-2011 | 2011 | cast | 0.041 | 5.51 | 0.55 | 0.041 | 0.041 | 0.041 | 0.30 | <0.0050 | 0.011 | 0.101 | <0.0030 | 64 x 25 |
| 2 AA WA-2011 | 2011 | cast | 0.06i | 4.9i | 0.70 | 0.02i | 0.06i | 0.02i | 0.20i | <0.0050 | 0.01i | 0.15i | . | 64 x 25 |
| 2 AA WB-2011 | 2011 | cast | 0.02i | 6.0i | 0.25 | 0.06i | 0.02i | 0.06i | 0.40 | <0.0050 | 0.01i | 0.05i | . | 64 x 25 |
| 1 AL 236/01 | 2011 | cast | 0.022 | 5.79 | 0.203 | 0.051 | 0.052 | 0.022 | 0.206 | 0.026 | 0.012 | 0.054 | 0.010 | 60 x 25 |
| 2 ALC-2011-AC | 2011 | wrought | 0.019 | 5.62 | 0.26 | 0.015 | 0.023 | 0.024 | 0.12 | 0.017 | 0.017 | 0.047 | 0.0027 | 57 x 25 |
| 2 ALC-226-AD | 2011 | cast | 0.047 | 4.88 | 0.19 | 0.039 | 0.045 | 0.039 | 0.16 | 0.16 | . | 0.057 | . | 57 x 25 |
| alloy 2012 | 2012 | | <0.05 | 4.00-5.50 | <0.70 | <0.05 | <0.05 | <0.05 | <0.40 | <0.05 | . | <0.30 | . | |
| alloy 2014 | 2014 | | <0.10 | 3.90-5.00 | <0.70 | 0.20-0.80 | 0.40-1.20 | <0.05 | 0.50-1.20 | <0.15 | . | <0.25 | . | |
| 1 56X G2014A | 2014 | wrought | 0.0766 | 4.41 | 0.243 | 0.453 | 0.572 | 0.0070 | 0.611 | 0.0244 | . | 0.195 | 0.135 | ~50 x ~20 |
| 2 AA SS-2014 | 2014 | cast | 0.04i | 4.5i | 0.50 | 0.55 | 0.80 | 0.04i | 1.0i | 0.03i | 0.01i | 0.12i | <0.0030 | 64 x 25 |
| 2 ALC-2014-AE | 2014 | wrought | 0.065 | 4.67 | 0.56 | 0.69 | 0.92 | 0.029 | 0.90 | 0.120 | 0.022 | 0.11 | 0.0030 | 57 x 25 |
| 2 HRT AL2014 | 2014 | cast | 0.04 | 3.92 | 0.57 | 0.59 | 0.53 | 0.017 | 0.57 | 0.036 | . | 0.072 | 0.002 | 35 x 20 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|---------------|----------|-----------|----------|----------|-----------|-----------|-----------|----------|-----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|----------|
| alloy 1199 | . | . | . | . | . | . | . | . | <0.005 | . | . | . | . | . | . | . | . | . |
| AA WA-1199 | 0.001i | . | <0.0010 | 0.0005 | 0.001i | <0.0005 | 0.001i | 0.001i | 0.001i | . | <0.0005 | <0.0005 | . | 0.003i | 0.001i | . | 0.001i | 0.001i |
| AJ 061 | . | . | <0.0001 | . | . | <0.0001 | . | . | . | . | . | <0.0001 | . | . | . | . | . | . |
| AL 112/03 | <0.00001 | 0.00001 | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00012 | <0.00001 | 0.00003 | <0.00001 | <0.00001 | <0.00001 |
| AL 113/03 | . | . | 0.0090 | <0.00001 | 0.00053 | <0.0001 | <0.00001 | 0.00050 | 0.00007 | . | <0.00001 | <0.00005 | 0.0013 | 0.0007 | 0.00065 | . | 0.0006 | . |
| AL 114/03 | <0.00005 | <0.0001 | 0.017 | <0.00005 | 0.0011 | (0.0001) | 0.0031 | 0.00104 | 0.0011 | <0.0001 | 0.0002 | <0.0001 | 0.0004 | 0.0017 | 0.0021 | . | 0.0012 | <0.0001 |
| V 1000-1 | <0.00001 | 0.00004 | <0.00002 | <0.00003 | <0.00004 | <0.00007 | <0.00002 | <0.00002 | <0.00002 | . | <0.00002 | <0.00001 | 0.0004 | <0.00002 | <0.0001 | <0.00002 | <0.00005 | <0.00002 |
| V 1001 | <0.00001 | 0.00007 | 0.00016 | . | . | 0.00007 | <0.00002 | <0.00005 | <0.0001 | . | . | . | 0.0006 | 0.00005 | 0.00030 | 0.00003 | . | <0.00002 |
| V R-06 | . | 0.00002 | 0.00009 | . | . | . | . | . | 0.000003 | . | . | . | . | 0.00009 | 0.00002 | 0.00001 | . | . |
| V R-07 | . | 0.000002 | <0.00005 | . | . | . | . | . | 0.000003 | . | . | . | . | 0.000004 | 0.000001 | 0.000003 | . | . |
| V R-08 | . | <0.000001 | <0.00002 | . | . | . | . | . | 0.000001 | . | . | . | . | <0.000004 | <0.000001 | <0.000001 | . | . |
| V R-09 | . | <0.000008 | <0.00005 | . | . | . | . | . | <0.000001 | . | . | . | . | 0.000002 | <0.000001 | 0.000009 | . | . |
| V R-10 | . | <0.00002 | <0.00005 | . | . | . | . | . | <0.000002 | . | . | . | . | <0.000013 | <0.000002 | <0.000001 | . | . |
| V R-11 | . | <0.00008 | <0.00003 | . | . | . | . | . | 0.0000005 | . | . | . | . | <0.000002 | 0.000015 | 0.000002 | . | . |
| V R-14 | . | 0.00002 | <0.00002 | . | . | . | . | . | 0.00015 | . | . | . | . | 0.000062 | 0.000011 | <0.000006 | . | . |
| V R-16 | . | 0.000001 | <0.00002 | . | . | . | . | . | <0.000001 | . | . | . | . | <0.000003 | 0.000003 | 0.000007 | . | . |
| V R-20 | . | . | 0.0001 | . | . | . | . | . | . | . | . | . | . | 0.00003 | . | . | . | . |
| V R-24 | . | <0.00003 | <0.00005 | . | . | . | . | . | <0.000006 | . | . | . | . | <0.000015 | 0.000003 | <0.000006 | . | . |
| V R-27 | . | <0.00002 | <0.00002 | . | . | . | . | . | <0.00001 | . | . | . | . | <0.00001 | <0.00001 | <0.00001 | . | . |
| alloy 1200 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 116/04 | 0.0020 | 0.0058 | 0.0004 | 0.00028 | 0.0021 | (0.00007) | 0.0011 | 0.0020 | 0.0048 | 0.0004 | 0.00011 | <0.0001 | 0.0019 | 0.0029 | 0.0035 | . | 0.0031 | 0.00085 |
| ALC-1200-AJ | . | . | . | 0.0010i | 0.0075 | 0.0024i | 0.0011 | . | 0.020 | . | 0.0027i | 0.0018i | 0.0028 | 0.0081 | 0.0021 | . | 0.019 | 0.0023i |
| PY 574 | . | . | . | . | . | . | . | 0.0054 | 0.00585 | . | . | . | . | 0.0051 | . | . | 0.00550 | . |
| V 1003 | . | . | 0.00013 | . | . | 0.00006 | . | . | . | . | . | . | . | . | . | . | . | . |
| V 1004 | . | . | 0.0001 | . | . | 0.00006 | . | . | . | . | . | . | 0.0004 | . | . | . | . | . |
| V 1005 | . | . | 0.0002 | . | . | <0.00005 | . | . | . | . | . | <0.00002 | . | . | 0.00006 | <0.00003 | . | . |
| V 1203 | . | . | . | . | . | <0.0001 | . | <0.0005 | 0.0035 | . | . | . | . | . | . | . | <0.0001 | . |
| alloy 2001 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.003 | . | . | . | . |
| alloy 2002 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 2003 | . | . | . | . | . | . | 0.05-0.20 | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2004 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2005 | . | . | . | . | <0.20 | . | . | . | . | . | . | . | . | 1.00-2.00 | . | . | . | . |
| alloy 2006 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2007 | . | . | . | . | <0.20 | . | . | . | . | . | . | . | . | 0.80-1.50 | . | . | <0.20 | . |
| 56X G2007A | . | . | . | . | 0.147 | 0.0051 | . | . | . | . | . | . | . | 0.889 | . | 0.0676 | . | . |
| AL 233/03 | . | . | . | . | 0.21 | . | 0.048 | . | . | . | 0.00007 | . | . | 1.10 | . | . | . | . |
| HRT AL2016 | . | . | . | . | 0.070 | . | . | . | . | . | . | . | . | 0.86 | . | . | 0.016 | . |
| alloy 2008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2009 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2010 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2011 | . | . | . | . | 0.20-0.60 | . | . | . | . | . | . | . | . | 0.20-0.60 | . | . | . | . |
| 56X G2000J 5C | 0.234 | . | . | 0.0050 | 0.136 | . | . | 0.077 | . | . | 0.009 | . | . | 0.69 | . | . | <0.005 | . |
| 56X G2011A | . | . | . | . | 0.527 | . | . | . | . | . | . | . | . | 0.332 | . | . | 0.0037 | . |
| AA SS-2011 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | 0.50 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | 0.50 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA WA-2011 | . | . | . | . | 0.60 | . | . | . | 0.02i | . | . | . | . | 0.40 | . | . | . | . |
| AA WB-2011 | . | . | . | . | 0.40 | . | . | . | 0.02i | . | . | . | . | 0.60 | . | . | . | . |
| AL 236/01 | . | . | . | . | 0.48 | . | 0.0048 | . | 0.0089 | . | . | . | . | 0.58 | . | . | 0.051 | . |
| ALC-2011-AC | . | . | . | 0.0004 | 0.49 | 0.0009i | 0.0011 | . | 0.020 | . | 0.0007i | 0.0005i | 0.002 | 0.53 | 0.0029 | . | 0.019 | 0.0009i |
| ALC-226-AD | . | . | . | . | 0.044 | . | . | . | . | . | . | . | . | 0.041 | . | . | 0.041 | . |
| alloy 2012 | . | . | . | . | 0.20-0.70 | . | . | . | . | . | . | . | . | . | . | . | 0.20-0.60 | . |
| alloy 2014 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 56X G2014A | . | . | . | . | 0.0013 | . | . | . | . | . | . | . | . | 0.0110 | . | . | (0.0047) | . |
| AA SS-2014 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-2014-AE | . | . | . | 0.0010 | 0.007 | 0.0027 | 0.0012i | . | 0.018 | . | 0.0022i | 0.0026i | 0.003 | 0.0074 | 0.0028 | . | 0.019 | 0.0026 |
| HRT AL2014 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.017 | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|------------------|--------|--------------|--------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|-----------|----------------|
| alloy 2017 | 2017 | | <0.10 | 3.50-4.50 | <0.70 | 0.40-0.80 | 0.40-1.00 | <0.05 | 0.20-0.80 | <0.05 | . | <0.25 | . | |
| 2 AA SS-2017 | 2017 | cast | 0.05i | 4.0i | 0.45 | 0.60 | 0.60 | 0.03i | 0.60 | 0.03i | 0.01i | 0.07i | <0.0030 | 64 x 25 |
| 2 HRT AL2014 | 2017 | | 0.04 | 3.92 | 0.57 | 0.59 | 0.53 | 0.017 | 0.57 | 0.036 | . | 0.072 | 0.002 | 35 x 20 |
| 1 PY 960 | 2017 | cast | 0.0630 | 3.76 | 0.3200 | 0.80 | 0.506 | 0.0310 | 0.586 | 0.0374 | . | 0.0892 | 0.0312 | 55 x 30 |
| 2 AA WA-2017 | 2017 | cast | 0.02i | 3.5i | 0.65 | 0.75 | 0.40 | 0.06i | 0.75 | 0.05i | 0.01i | 0.03i | . | 64 x 25 |
| 2 ALC-2017-AC | 2017 | wrought | 0.017 | 4.24 | 0.41 | 0.75 | 0.63 | 0.034 | 0.57 | 0.018 | 0.022 | 0.015 | 0.0026 | 57 x 25 |
| 2 ALC-17S-BE | 2017 | wrought | 0.032 | 4.33 | 0.40 | 0.69 | 0.66 | 0.041 | 0.54 | 0.039 | 0.01 | 0.046 | . | 57 x 25 |
| alloy 2018 | 2018 | | <0.10 | 3.50-4.50 | <1.00 | 0.45-0.90 | <0.20 | 1.70-2.30 | <0.90 | <0.05 | . | <0.25 | . | |
| 2 AA SS-2018 | 2018 | cast | 0.05i | 4.2i | 0.40 | 0.65 | 0.05i | 2.1i | 0.70 | 0.04i | 0.01i | 0.12i | <0.0030 | 64 x 25 |
| 2 ALC-2018-AB | 2018 | wrought | 0.028 | 4.14 | 0.34 | 0.62 | 0.015 | 2.15 | 0.48 | 0.027 | 0.016 | 0.030 | 0.0018 | 57 x 25 |
| alloy 2020 | 2020 | | <0.05 | 4.00-5.00 | <0.40 | <0.03 | 0.30-0.80 | <0.05 | <0.40 | <0.05 | . | <0.25 | . | |
| alloy 2021 | 2021 | | <0.05 | 5.80-6.80 | <0.30 | <0.02 | 0.20-0.40 | <0.05 | <0.20 | 0.02-0.10 | 0.05-0.15 | <0.10 | 0.10-0.25 | |
| 2 ALC-B206-AA | 2022 | wrought | 0.028 | 4.68 | 0.16 | 0.30i | 0.43 | 0.029 | 0.078 | 0.22 | 0.02 | 0.029 | 0.003 | 57 x 25 |
| alloy 2024 | 2024 | | <0.10 | 3.80-4.90 | <0.50 | 1.20-1.80 | 0.30-0.90 | <0.05 | <0.50 | <0.15 | . | <0.25 | . | |
| 1 56X G2024A | 2024 | wrought | 0.0389 | 4.34 | 0.178 | 1.509 | 0.658 | 0.0055 | 0.122 | 0.0099 | 0.0070 | 0.0446 | 0.0053 | ~50 x ~20 |
| 2 AA WA-2024 | 2024 | cast | 0.06i | 4.0i | 0.30 | 1.6i | 0.70 | 0.04i | 0.30 | 0.03i | . | 0.06i | . | 64 x 25 |
| 2 AA WB-2024 | 2024 | cast | 0.06i | 5.0i | 0.30 | 1.6i | 0.70 | 0.04i | 0.30 | 0.03i | . | 0.25 | . | 64 x 25 |
| 2 AA WE-2024 | 2024 | cast | 0.10i | 4.6i | 0.20i | 1.6i | 0.45 | 0.02i | 0.45 | 0.01i | . | 0.25 | . | 64 x 25 |
| 2 AA WF-2024 | 2024 | cast | 0.02i | 4.6i | 0.45 | 1.6i | 0.80 | 0.07i | 0.15i | 0.06i | . | 0.03i | . | 64 x 25 |
| 1 AL 227/01 | 2024 | cast | 0.041 | 4.30 | 0.390 | 1.35 | 0.56 | 0.040 | 0.125 | 0.050 | 0.025 | 0.22 | 0.010 | 60 x 25 |
| 2 ALC-2024-AF | 2024 | wrought | 0.028 | 4.55 | 0.25 | 1.57 | 0.66 | 0.031 | 0.25 | 0.032 | 0.022 | 0.073 | 0.0024 | 57 x 25 |
| 2 AA SS-2024 | 2024 | cast | 0.06i | 4.6i | 0.35 | 1.6i | 0.65 | 0.04i | 0.20i | 0.03i | 0.01i | 0.10i | <0.0030 | 64x25 or 25x6 |
| 1 AL AS20/02 | 2024 | cast | 0.104 | 4.65 | 0.310 | 1.57 | 0.694 | 0.052 | 0.204 | 0.0562 | 0.0245 | 0.201 | 0.140 | 60 x 25 |
| 1 BAM 311 | 2024 | cast | 0.1037 | 4.653 | 0.310 | 1.567 | 0.694 | 0.0519 | 0.2040 | 0.0562 | 0.0240 | 0.2005 | 0.140 | 60 x 25 |
| 1 IARM 104B | 2024 | | 0.0088 | 4.63 | 0.262 | 1.56 | 0.645 | 0.0053 | 0.150 | 0.056 | 0.006 | 0.065 | (0.0010) | 57 x 25 |
| 3 V 4002-1 | 2024 | cast | 0.002 | 4.62 | 0.25 | 1.48 | 0.67 | 0.003 | 0.21 | 0.051 | . | 0.20 | 0.13 | 60 x 20 |
| 3 V 4003-1 | 2024 | cast | 0.002 | 4.39 | 0.30 | 1.74 | 0.79 | 0.003 | 0.33 | 0.027 | . | 0.15 | 0.25 | 60 x 20 |
| 3 V 4005 | 2024 | cast | 0.002 | 4.54 | 0.30 | 1.31 | 0.80 | 0.003 | 0.32 | 0.004 | . | 0.21 | 0.0020 | 60 x 20 |
| 3 V 4006 | 2024 | cast | 0.004 | 4.55 | 0.29 | 1.27 | 0.80 | 0.002 | 0.32 | 0.050 | . | 0.21 | 0.15 | 60 x 20 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 2025 | 2025 | | <0.10 | 3.90-5.00 | <1.00 | <0.05 | 0.40-1.20 | <0.05 | 0.50-1.20 | <0.15 | . | <0.25 | . | |
| 2 AA SS-2025 | 2025 | cast | 0.04i | 4.6i | 0.55 | 0.05i | 0.80 | 0.04i | 0.80 | 0.03i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| alloy 2026 | 2026 | | <0.05 | 3.60-4.30 | <0.07 | 0.30-0.80 | 1.00-1.60 | <0.05 | <0.05 | <0.06 | . | <0.10 | 0.05-0.25 | |
| alloy 2030 | 2030 | | <0.10 | 3.30-4.50 | <0.70 | 0.50-1.30 | 0.20-1.00 | <0.10 | <0.80 | <0.20 | . | <0.10 | . | |
| 1 AL 232/02 | 2030 | cast | 0.080 | 4.28 | 0.501 | 0.90 | 0.81 | 0.020 | 0.395 | 0.031 | . | 0.102 | . | 60 x 25 |
| alloy 2031 | 2031 | | <0.05 | 1.80-2.80 | 0.60-1.20 | 0.60-1.20 | <0.50 | 0.60-1.40 | 0.50-1.30 | <0.20 | . | <0.20 | . | |
| alloy 2034 | 2034 | | <0.05 | 4.20-4.80 | <0.12 | 1.30-1.90 | 0.80-1.30 | <0.05 | <0.10 | <0.15 | . | <0.20 | 0.08-0.15 | |
| alloy 2036 | 2036 | | <0.10 | 2.20-3.00 | <0.50 | 0.30-0.60 | 0.10-0.40 | <0.05 | <0.50 | <0.10 | . | <0.25 | . | |
| alloy 2037 | 2037 | | <0.10 | 1.40-2.20 | <0.50 | 0.30-0.80 | 0.10-0.40 | <0.05 | <0.50 | <0.15 | <0.05 | <0.25 | . | |
| alloy 2038 | 2038 | | <0.20 | 0.80-1.80 | <0.60 | 0.40-1.00 | 0.10-0.40 | <0.05 | 0.50-1.30 | <0.15 | <0.05 | <0.50 | . | |
| alloy 2039 | 2039 | | <0.05 | 4.50-5.50 | <0.30 | 0.40-0.80 | 0.20-0.50 | <0.05 | <0.20 | <0.15 | . | <0.05 | 0.10-0.25 | |
| 1 56X G2000J 4C | 2039 M | cast | 0.053 | 5.02 | 0.705 | 0.505 | 0.271 | 0.089 | 1.33 | 0.135 | 0.0132 | 0.0131 | 0.105 | 50x20 or 40x15 |
| alloy 2048 | 2048 | | <0.05 | 2.80-3.80 | <0.20 | 1.20-1.80 | 0.20-0.60 | <0.05 | <0.15 | <0.10 | . | <0.25 | . | |
| 1 AA SS-2055 XRF | 2055 | cast | 0.003i | 3.6i | 0.030i | 0.34i | 0.28i | 0.003i | 0.02i | 0.030i | 0.005i | 0.50i | 0.12i | 25 x 6 |
| alloy 2080 | 2080 | O: 0.05-0.50 | <0.05 | 3.30-4.10 | <0.20 | 1.50-2.20 | <0.25 | <0.05 | <0.10 | <0.05 | . | <0.10 | 0.08-0.25 | |
| alloy 2090 | 2090 | | <0.05 | 2.40-3.00 | <0.12 | <0.25 | <0.05 | <0.05 | <0.10 | <0.15 | . | <0.10 | 0.08-0.15 | |
| alloy 2091 | 2091 | | <0.10 | 1.80-2.50 | <0.30 | 1.10-1.90 | <0.10 | <0.05 | <0.20 | <0.10 | . | <0.25 | 0.04-0.16 | |
| alloy 2094 | 2094 | | <0.05 | 4.40-5.20 | <0.15 | 0.25-0.80 | <0.25 | <0.05 | <0.12 | <0.10 | . | <0.25 | 0.04-0.18 | |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|---------------|-----------|---------|----------|----------|---------|------------|-----------|----------|--------|---------|-----------|-----------|---------|-----------|---------|---------|-----------|----------|
| alloy 2017 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-2017 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| HRT AL2014 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.017 | . | . | . | . |
| PY 960 | . | . | . | 0.0022 | . | . | . | . | . | . | . | . | . | 0.0286 | . | . | 0.0248 | . |
| AA WA-2017 | . | . | . | . | . | . | . | . | 0.02i | . | . | . | . | . | . | . | . | . |
| ALC-2017-AC | . | . | . | 0.0012 | 0.019 | 0.0025i | 0.0013 | . | 0.020 | . | 0.0025i | 0.0019i | 0.0031i | 0.015 | 0.0031 | . | 0.015 | 0.0028i |
| ALC-17S-BE | . | . | . | . | 0.021 | . | . | . | 0.02 | . | . | . | . | 0.03 | . | . | 0.032 | . |
| alloy 2018 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-2018 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | 0.05i | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | 0.05i | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-2018-AB | . | . | . | 0.0011 | 0.021 | 0.0025 | 0.0012 | 0.0017 | 0.020 | . | 0.0017i | 0.0009i | 0.0030 | 0.017 | 0.0025 | . | 0.015 | 0.0026 |
| alloy 2020 | . | . | . | . | . | . | 0.10-0.35 | . | . | . | 0.90-1.70 | . | . | . | . | . | . | . |
| alloy 2021 | . | . | . | . | . | . | 0.05-0.20 | . | . | . | . | . | . | . | . | . | 0.03-0.08 | . |
| ALC-B206-AA | . | . | . | 0.0008 | 0.009 | 0.0037i | 0.0011 | . | 0.017 | . | 0.0030i | 0.0033i | 0.003 | 0.011 | 0.0038 | . | 0.02 | 0.0037i |
| alloy 2024 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 56X G2024A | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.0010 | . | . | 0.0010 | . |
| AA WA-2024 | . | . | . | 0.001i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA WB-2024 | . | . | . | 0.000i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA WE-2024 | . | . | . | 0.007i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA WF-2024 | . | . | . | 0.002i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 227/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-2024-AF | . | . | . | 0.0010 | 0.008 | 0.0031i | 0.0011i | . | 0.022 | . | 0.0030i | 0.0026i | 0.0023 | 0.0077 | 0.0030 | . | 0.015 | 0.0029 |
| AA SS-2024 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL AS20/02 | . | . | . | 0.00052 | 0.050 | 0.0006 | 0.0013 | 0.0012 | 0.016 | . | 0.00055 | (0.002) | . | 0.051 | . | . | 0.0125 | . |
| BAM 311 | . | . | . | 0.00052 | 0.0500 | (0.000559) | 0.00127 | 0.00115 | 0.0159 | . | 0.00053 | (0.00184) | . | 0.0504 | . | . | 0.0127 | . |
| IARM 104B | (0.0005) | . | (0.0016) | 0.00021 | . | . | . | (0.0005) | 0.011 | . | . | (0.0005) | . | 0.014 | . | . | (0.003) | (0.0003) |
| V 4002-1 | . | . | 0.0004 | . | . | 0.0002 | . | . | . | . | . | . | . | 0.0045 | . | . | . | . |
| V 4003-1 | . | . | <0.0007 | . | . | 0.0002 | . | . | . | . | . | . | . | 0.0040 | . | . | . | . |
| V 4005 | . | . | <0.0007 | . | . | 0.0002 | . | . | . | . | . | . | . | 0.0030 | . | . | . | . |
| V 4006 | . | . | 0.0001 | . | . | . | . | . | . | . | . | . | . | 0.0020 | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 2025 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-2025 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 2026 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2030 | . | . | . | . | <0.20 | . | . | . | . | . | . | . | . | 0.80-1.50 | . | . | . | . |
| AL 232/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.90 | . | . | . | . |
| alloy 2031 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2034 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2036 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2037 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2038 | . | . | . | . | . | . | . | . | <0.05 | . | . | . | . | . | . | . | . | . |
| alloy 2039 | 0.05-0.50 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 56X G2000J 4C | 0.0122 | . | . | . | 0.0049 | . | . | 0.0247 | . | . | 0.0025 | . | . | 0.879 | . | . | 0.0092 | . |
| alloy 2048 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-2055 | 0.47i | <0.0005 | <0.0005 | <0.0001i | <0.0005 | <0.0010 | <0.0005 | <0.0005 | 0.006i | <0.0005 | 1.1i | <0.0001i | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0005 |
| alloy 2080 | . | . | . | <0.005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2090 | . | . | . | . | . | . | . | . | . | . | 1.90-2.60 | . | . | . | . | . | . | . |
| alloy 2091 | . | . | . | . | . | . | . | . | . | . | 1.70-2.30 | . | . | . | . | . | . | . |
| alloy 2094 | 0.25-0.60 | . | . | . | . | . | . | . | . | . | 0.70-1.40 | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---------------|-------|---------|-------|-----------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-------|-----------|-------------|
| alloy 2095 | 2095 | | <0.05 | 3.90-4.60 | <0.15 | 0.25-0.80 | <0.25 | <0.05 | <0.12 | <0.10 | . | <0.25 | 0.04-0.18 | |
| alloy 2096 | 2096 | | <0.05 | 2.30-3.00 | <0.15 | 0.25-0.80 | <0.25 | <0.05 | <0.12 | <0.10 | . | <0.25 | 0.04-0.18 | |
| alloy 2097 | 2097 | | <0.05 | 2.50-3.10 | <0.15 | <0.35 | 0.10-0.60 | <0.05 | <0.12 | <0.15 | . | <0.35 | 0.08-0.16 | |
| alloy 2098 | 2098 | | <0.05 | 3.20-3.80 | <0.15 | 0.25-0.80 | <0.35 | <0.05 | <0.12 | <0.10 | . | <0.35 | 0.04-0.18 | |
| alloy 2111 | 2111 | | <0.05 | 5.00-6.00 | <0.70 | <0.05 | <0.05 | <0.05 | <0.40 | <0.05 | . | <0.30 | . | |
| alloy 2117 | 2117 | | <0.10 | 2.20-3.00 | <0.70 | 0.20-0.50 | <0.20 | <0.05 | <0.80 | <0.05 | . | <0.25 | . | |
| 2 AA SS-2117 | 2117 | cast | 0.03i | 2.6i | 0.40 | 0.30 | 0.05i | 0.03i | 0.50 | 0.02i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| 2 ALC-16S-AR | 2117 | wrought | 0.038 | 2.50 | 0.38 | 0.30 | 0.032 | 0.011 | 0.35 | 0.003 | 0.005 | 0.043 | . | 57 x 25 |
| alloy 2124 | 2124 | | <0.10 | 3.80-4.90 | <0.30 | 1.20-1.80 | 0.30-0.90 | <0.05 | <0.20 | <0.15 | . | <0.25 | . | |
| 3 V 4001-1 | 2124 | cast | 0.002 | 4.15 | 0.25 | 1.39 | 0.69 | 0.002 | 0.14 | 0.030 | . | 0.10 | 0.080 | 60 x 20 |
| alloy 2195 | 2195 | | <0.05 | 3.70-4.30 | <0.15 | 0.25-0.80 | <0.25 | <0.05 | <0.12 | <0.10 | . | <0.25 | 0.08-0.16 | |
| alloy 2196 | 2196 | | <0.05 | 2.50-3.30 | <0.15 | 0.25-0.80 | <0.35 | <0.05 | <0.12 | <0.10 | . | <0.35 | 0.04-0.18 | |
| alloy 2197 | 2197 | | <0.05 | 2.50-3.10 | <0.10 | <0.25 | 0.10-0.50 | <0.10 | <0.10 | <0.12 | . | <0.05 | 0.08-0.15 | |
| alloy 2214 | 2214 | | <0.10 | 3.90-5.00 | <0.30 | 0.20-0.80 | 0.40-1.20 | <0.05 | 0.50-1.20 | <0.15 | . | <0.25 | . | |
| 1 AL 224/01 | 2214 | cast | 0.080 | 4.60 | 0.25 | 0.57 | 0.90 | 0.011 | 0.76 | 0.052 | . | 0.055 | 0.150 | 60 x 25 |
| alloy 2218 | 2218 | | <0.10 | 3.50-4.50 | <1.00 | 1.20-1.80 | <0.20 | 1.70-2.30 | <0.90 | <0.05 | . | <0.25 | . | |
| alloy 2219 | 2219 | | <0.05 | 5.80-6.80 | <0.30 | <0.02 | 0.20-0.40 | <0.05 | <0.20 | 0.02-0.10 | 0.05-0.15 | <0.10 | 0.10-0.25 | |
| 2 AA SS-2219 | 2219 | cast | 0.01i | 6.3i | 0.20i | 0.02i | 0.28 | 0.01i | 0.15i | 0.06i | 0.12i | 0.03i | 0.16i | 64 x 25 |
| 2 ALC-2219-AC | 2219 | wrought | 0.013 | 6.70 | 0.21 | 0.013 | 0.24 | 0.016 | 0.15 | 0.050 | 0.092 | 0.088 | 0.13 | 57 x 25 |
| alloy 2224 | 2224 | | <0.10 | 3.80-4.40 | <0.15 | 1.20-1.80 | 0.30-0.90 | <0.05 | <0.12 | <0.15 | . | <0.25 | . | |
| alloy 2297 | 2297 | | <0.05 | 2.50-3.10 | <0.10 | <0.25 | 0.10-0.50 | <0.05 | <0.10 | <0.12 | . | <0.05 | 0.08-0.15 | |
| alloy 2319 | 2319 | | <0.05 | 5.80-6.80 | <0.30 | <0.02 | 0.20-0.40 | <0.05 | <0.20 | 0.10-0.20 | 0.05-0.15 | <0.10 | 0.10-0.25 | |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|--------|-------------------|---------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|-----------|-------------|
| alloy 2324 | 2324 | | <0.10 | 3.80-4.40 | <0.12 | 1.20-1.80 | 0.30-0.90 | <0.05 | <0.10 | <0.15 | . | <0.25 | . | |
| 2 AA SS-2324 | 2324 | cast | 0.01i | 4.2i | 0.05i | 1.5i | 0.50 | 0.01i | 0.05i | 0.01i | 0.01i | 0.01i | <0.0030 | 64 x 25 |
| alloy 2419 | 2419 | | <0.05 | 5.80-6.80 | <0.18 | <0.02 | 0.20-0.40 | <0.05 | <0.15 | 0.02-0.10 | 0.05-0.15 | <0.10 | 0.10-0.25 | |
| alloy 2424 | 2424 | | <0.05 | 3.80-4.40 | <0.12 | 1.20-1.60 | 0.30-0.60 | <0.05 | <0.10 | <0.10 | . | <0.20 | . | |
| alloy 2519 | 2519 | | <0.05 | 5.30-6.40 | <0.30 | 0.05-0.40 | 0.10-0.50 | <0.05 | <0.25 | 0.02-0.10 | 0.05-0.15 | <0.10 | 0.10-0.25 | |
| alloy 2524 | 2524 | | <0.05 | 4.00-4.50 | <0.12 | 1.20-1.60 | 0.45-0.70 | <0.05 | <0.06 | <0.10 | . | <0.15 | . | |
| alloy 2618 | 2618 | | <0.05 | 1.90-2.70 | 0.90-1.30 | 1.30-1.80 | <0.05 | 0.90-1.20 | 0.10-0.25 | 0.04-0.10 | . | <0.05 | . | |
| 1 56X G2618A | 2618 | wrought | 0.0165 | 2.45 | 1.057 | 1.625 | 0.0394 | 0.953 | 0.175 | 0.069 | 0.0162 | 0.0139 | 0.0011 | ~50 x ~20 |
| 2 AA SS-2618 | 2618 | cast | <0.0050 | 2.2i | 1.2i | 1.6i | 0.05i | 1.1i | 0.20i | 0.07i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| alloy 3002 | 3002 | | <0.03 | <0.15 | <0.10 | 0.05-0.20 | 0.05-0.25 | <0.03 | <0.08 | <0.03 | . | <0.03 | . | |
| 2 ALC-3002-AB | 3002 | wrought | 0.021 | 0.12 | 0.086 | 0.15 | 0.24 | 0.021 | 0.075 | 0.020 | 0.019 | 0.048 | 0.0020 | 57 x 25 |
| alloy 3003 | 3003 | | <0.05 | 0.05-0.20 | <0.70 | <0.05 | 1.00-1.50 | <0.05 | <0.60 | <0.05 | . | <0.10 | . | |
| 2 AA SS-3003 | 3003 | cast | <0.0050 | 0.15i | 0.50 | 0.03i | 1.2i | <0.0050 | 0.20i | 0.02i | 0.01i | 0.08i | <0.0030 | 64 x 25 |
| 2 AA ST2-3003 | 3003 | cast | 0.015 | 0.15i | 0.65 | 0.01i | 1.2i | 0.02i | 0.30 | 0.02i | 0.015 | 0.02i | 0.004i | 64 x 25 |
| 2 AA WA-3003 | 3003 | cast | 0.03i | 0.09i | 0.65 | 0.01i | 0.95 | 0.03i | 0.40 | 0.03i | 0.01i | 0.05i | . | 64 x 25 |
| 2 AA WB-3003 | 3003 | cast | <0.0050 | 0.20i | 0.30 | 0.05i | 1.5i | <0.0050 | 0.15i | 0.01i | 0.01i | 0.02i | . | 64 x 25 |
| 2 ALC-3003-AK | 3003 | wrought | 0.0142 | 0.090 | 0.63 | 0.011i | 1.14 | 0.023 | 0.24 | 0.025 | 0.020 | 0.0253 | 0.0020 | 57 x 25 |
| 2 ALC-X3003-AD | 3003 M | wrought | 0.015 | 0.16 | 0.53 | 0.014 | 1.17 | 0.018 | 0.37 | 0.021 | 0.019 | 1.39 | 0.0024 | 57 x 25 |
| 1 V 2416-3 | 3003 | cast, Tl: .00194% | 0.0604 | 0.544 | 0.697 | 0.1055 | 1.51 | 0.0543 | 0.669 | 0.148 | 0.0278 | 0.1281 | 0.00646 | 60 x 20 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|-----------|---------|---------|---------|-----------|---------|---------|---------|-------|---------|-----------|---------|---------|---------|---------|---------|-----------|---------|
| alloy 2095 | 0.25-0.60 | . | . | . | . | . | . | . | . | . | 0.70-1.50 | . | . | . | . | . | . | . |
| alloy 2096 | 0.25-0.60 | . | . | . | . | . | . | . | . | . | 1.30-1.90 | . | . | . | . | . | . | . |
| alloy 2097 | . | . | . | . | . | . | . | . | . | . | 1.20-1.80 | . | . | . | . | . | . | . |
| alloy 2098 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2111 | . | . | . | . | 0.20-0.80 | . | . | . | . | . | . | . | . | . | . | . | 0.10-0.50 | . |
| alloy 2117 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-2117 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.020 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-16S-AR | . | . | . | . | 0.03 | 0.00871 | . | . | 0.017 | . | . | 0.00341 | . | (0.037) | . | . | 0.041 | . |
| alloy 2124 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 4001-1 | . | . | <0.0005 | . | . | . | . | . | . | . | . | . | . | 0.0040 | . | . | . | . |
| alloy 2195 | 0.25-0.60 | . | . | . | . | . | . | . | . | . | 0.80-1.20 | . | . | . | . | . | . | . |
| alloy 2196 | 0.25-0.60 | . | . | . | . | . | . | . | . | . | 1.40-2.10 | . | . | . | . | . | . | . |
| alloy 2197 | . | . | . | . | . | . | . | . | . | . | 1.30-1.70 | . | . | . | . | . | . | . |
| alloy 2214 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 224/01 | . | . | . | 0.0050 | 0.0160 | . | 0.018 | . | . | . | . | . | . | 0.020 | . | . | . | . |
| alloy 2218 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2219 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-2219 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-2219-AC | . | . | . | 0.0011 | 0.0067 | 0.0013 | 0.0020 | . | 0.015 | . | 0.0014 | 0.0015 | 0.0021 | 0.0087 | 0.0029 | . | 0.017 | 0.0021 |
| alloy 2224 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2297 | . | . | . | . | . | . | . | . | . | . | 1.10-1.70 | . | . | . | . | . | . | . |
| alloy 2319 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| alloy 2324 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-2324 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 2419 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2424 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2519 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2524 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 2618 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 56X G2618A | . | . | . | . | . | 0.0020 | . | . | . | . | . | . | . | 0.0020 | . | 0.0007 | . | . |
| AA SS-2618 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 3002 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-3002-AB | . | . | . | 0.0011 | 0.009 | 0.0027i | 0.0013 | . | 0.021 | . | 0.0018i | 0.0017i | 0.0041 | 0.008 | 0.0038 | . | 0.021 | 0.0030i |
| alloy 3003 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-3003 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | 0.001i | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA ST2-3003 | . | 0.0005 | <0.0010 | 0.0002 | 0.02i | 0.002i | 0.0005 | 0.0005 | 0.002i | 0.0002 | 0.001i | 0.0015 | 0.0005 | 0.02i | 0.003i | . | 0.02i | 0.0012 |
| AA WA-3003 | . | . | . | 0.001i | . | . | 0.001i | . | 0.02i | . | . | . | . | 0.006i | . | . | . | . |
| AA WB-3003 | . | . | . | . | . | . | 0.003i | . | 0.02i | . | . | . | . | 0.02i | . | . | . | . |
| ALC-3003-AK | . | . | . | 0.0010i | 0.0078 | 0.0017i | 0.0013 | . | 0.014 | . | 0.0023i | 0.0014i | 0.0016 | 0.0081 | 0.0020 | . | 0.0148 | 0.0019i |
| ALC-X3003-AD | . | . | . | 0.0011 | 0.0064 | 0.0019i | 0.0011 | 0.021 | . | . | 0.0021i | 0.0025i | 0.0030 | 0.0077 | 0.0025 | . | 0.018 | 0.0019i |
| V 2416-3 | . | 0.00188 | 0.00013 | 0.00099 | 0.0098 | 0.00071 | 0.00447 | 0.00244 | 0.0113 | 0.00229 | 0.00090 | 0.00016 | 0.00220 | 0.0085 | 0.0089 | . | 0.00643 | <0.0002 |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|--------|---------|-----------|-----------|-----------|-----------|-----------|---------|-----------|-----------|---------|-----------|-----------|---------------|
| alloy 3004 | 3004 | | <0.05 | <0.25 | <0.70 | 0.80-1.30 | 1.00-1.50 | <0.05 | <0.30 | <0.05 | . | <0.25 | . | |
| 2 AA SS-3004 | 3004 | cast | <0.0050 | 0.15i | 0.50 | 1.1i | 1.2i | <0.0050 | 0.18i | 0.02i | 0.01i | 0.05i | <0.0030 | 64x25 or 25x6 |
| 2 AA WA-3004 | 3004 | cast | 0.01i | 0.10i | 0.60 | 1.3i | 1.0i | 0.01i | 0.22i | <0.0050 | 0.01i | 0.15i | . | 64 x 25 |
| 2 AA WB-3004 | 3004 | cast | 0.02i | 0.20i | 0.40 | 0.90 | 1.4i | 0.02i | 0.10i | 0.05i | 0.01i | 0.10i | . | 64 x 25 |
| 2 ALC-3004-AO | 3004 | wrought | 0.029 | 0.21 | 0.48 | 1.24 | 1.20 | 0.027 | 0.23 | 0.029 | 0.019 | 0.13 | 0.0033 | 57 x 25 |
| 1 SRM 1240c | 3004 | | (0.00054) | 0.1484 | 0.501 | 1.110 | 1.268 | 0.00434 | 0.1804 | 0.0204 | 0.01850 | 0.0514 | (0.0023) | 63 x 19 |
| alloy 3005 | 3005 | | <0.10 | <0.30 | <0.70 | 0.20-0.60 | 1.00-1.50 | <0.05 | <0.60 | <0.10 | . | <0.25 | . | |
| 2 AA SS-3005 | 3005 | cast | 0.02i | 0.15i | 0.60 | 0.40 | 1.2i | 0.01i | 0.22i | 0.02i | 0.01i | 0.03i | <0.0030 | 64 x 25 |
| 1 AL 325/03 | 3005 | cast | 0.050 | 0.206 | 0.76 | 0.44 | 1.18 | . | 0.51 | 0.099 | 0.0021 | 0.165 | . | 60 x 25 |
| 2 ALC-X3005-AB | 3005 M | wrought | 0.016 | 0.53 | 0.21 | 0.12 | 1.51 | 0.021 | 0.081 | 0.020 | 0.020 | 0.025 | 0.0018 | 57 x 25 |
| 2 ALC-3005-AD | 3005 | wrought | 0.015 | 0.2 | 0.55 | 0.52 | 1.15 | 0.020 | 0.46 | 0.041 | 0.022 | 0.13 | 0.0031 | 57 x 25 |
| alloy 3006 | 3006 | | <0.20 | 0.10-0.30 | <0.70 | 0.30-0.60 | 0.50-0.80 | <0.05 | <0.50 | <0.10 | . | 0.15-0.40 | . | |
| alloy 3007 | 3007 | | <0.20 | 0.05-0.30 | <0.70 | <0.60 | 0.30-0.80 | <0.05 | <0.50 | <0.10 | . | <0.40 | . | |
| 1 PY 905 | 3007 | cast | 0.0416 | 0.2962 | 0.6785 | 0.1949 | 0.412 | 0.0103 | 0.2041 | 0.0101 | . | 0.1484 | . | 55 x 30 |
| alloy 3008 | 3008 | | <0.05 | <0.10 | <0.70 | <0.01 | 1.20-1.80 | <0.05 | <0.40 | <0.10 | . | <0.05 | 0.10-0.50 | |
| alloy 3009 | 3009 | | <0.05 | <0.10 | <0.70 | <0.10 | 1.20-1.80 | <0.05 | 1.00-1.80 | <0.10 | . | <0.05 | <0.10 | |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 3010 | 3010 | | 0.05-0.40 | <0.03 | <0.20 | <0.03 | 0.20-0.90 | <0.03 | <0.10 | <0.05 | . | <0.05 | . | |
| alloy 3011 | 3011 | | 0.10-0.40 | 0.05-0.20 | <0.70 | <0.05 | 0.80-1.20 | <0.05 | <0.40 | <0.10 | . | <0.10 | 0.10-0.30 | |
| alloy 3012 | 3012 | | <0.20 | <0.10 | <0.70 | <0.10 | 0.50-1.10 | <0.05 | <0.60 | <0.10 | . | <0.10 | . | |
| 1 AL 322/03 | 3012 | cast | 0.0053 | 0.0218 | 0.408 | 0.0178 | 1.05 | 0.0009 | 0.105 | 0.011 | 0.0095 | 0.051 | 0.067 | 60 x 25 |
| 2 ALC-X3012-AA | 3012 M | wrought | 0.016 | 0.520 | 0.20 | 0.031 | 1.23 | 0.020 | 0.49 | 0.014 | 0.020 | 0.084 | 0.0030 | 57 x 25 |
| 3 V 2407 | 3012 | cast | 0.067 | 0.031 | 0.52 | 0.013 | 0.89 | 0.0010 | 0.20 | 0.013 | . | 0.039 | 0.0026 | 60 x 20 |
| alloy 3014 | 3014 | | <0.05 | <0.50 | <1.00 | <0.10 | 1.00-1.50 | <0.05 | <0.60 | <0.10 | . | 0.50-1.00 | . | |
| alloy 3015 | 3015 | | <0.10 | <0.30 | <0.80 | 0.20-0.70 | 0.50-0.90 | <0.05 | <0.60 | <0.10 | . | <0.25 | . | |
| 1 AL 631/01 | 3015 | cast | 0.103 | 0.0105 | 0.105 | 0.515 | 0.505 | 0.010 | 0.53 | 0.0078 | . | 0.018 | . | 60 x 25 |
| alloy 3016 | 3016 | | <0.10 | <0.30 | <0.80 | 0.30-0.80 | 0.50-0.90 | <0.05 | <0.60 | <0.10 | . | <0.25 | . | |
| 1 AL 312/01 | 3016 | cast | 0.048 | 0.19 | 0.36 | 0.60 | 0.52 | 0.030 | 0.100 | 0.030 | . | 0.055 | . | 60 x 25 |
| alloy 3017 | 3017 | | <0.15 | 0.25-0.40 | 0.25-0.45 | <0.10 | 0.80-1.20 | <0.05 | <0.25 | <0.05 | . | <0.10 | . | |
| alloy 3018 | 3018 | | <0.10 | 0.10-0.30 | 0.15-0.25 | 0.80-1.40 | 1.10-1.40 | <0.05 | <0.30 | <0.10 | . | <0.25 | . | |
| alloy 3019 | 3019 | | <0.20 | <0.90 | <0.70 | 0.20-0.90 | 0.30-0.90 | <0.10 | <0.60 | <0.10 | . | 0.20-0.90 | . | |
| alloy 3020 | 3020 | | <0.20 | <0.10 | <0.60 | <0.20 | 0.60-1.20 | <0.05 | <0.50 | 0.05-0.25 | . | 0.05-0.50 | . | |
| alloy 3025 | 3025 | | <0.20 | <0.30 | 0.50-0.90 | 0.20-0.80 | 0.40-1.00 | <0.05 | <0.60 | <0.10 | . | <0.25 | . | |
| alloy 3030 | 3030 | | <0.05 | <0.10 | <0.35 | <0.05 | 0.10-0.70 | <0.05 | <0.15 | 0.05-0.35 | . | 0.05-0.50 | . | |
| alloy 3102 | 3102 | | <0.05 | <0.10 | <0.70 | <0.05 | 0.05-0.40 | <0.05 | <0.40 | <0.10 | . | <0.30 | . | |
| 2 AA SS-3102 | 3102 | cast | 0.02i | 0.07i | 0.45 | 0.02i | 0.18i | 0.02i | 0.25 | 0.02i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| 3 AJ 006 | 3102 | cast | 0.054 | 0.106 | 0.303 | 0.051 | 0.052 | 0.046 | 0.286 | 0.048 | 0.048 | 0.096 | 0.046 | 55 x 25 |
| 1 AL 136/03 | 3102 | cast | 0.037 | 0.056 | 0.365 | 0.038 | 0.058 | 0.032 | 0.294 | 0.030 | 0.025 | 0.034 | 0.0098 | 60 x 20 |
| 2 ALC-3102-AD | 3102 | wrought | 0.021 | 0.086 | 0.54 | 0.028 | 0.37 | 0.019 | 0.35 | 0.0271 | 0.0191 | 0.029 | 0.0040 | 57 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|---------|---------|---------|------------|---------|----------|-----------|---------|--------|---------|---------|----------|---------|----------|----------|---------|----------|---------------|
| alloy 3004 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-3004 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | 0.001i | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA WA-3004 | . | . | . | . | 0.0051 | . | 0.001i | . | 0.02i | . | . | . | . | 0.006i | . | . | . | . |
| AA WB-3004 | . | . | . | . | 0.002i | . | 0.003i | . | 0.02i | . | . | . | . | 0.02i | . | . | . | . |
| ALC-3004-AO | . | . | . | 0.0012 | 0.0069 | 0.0038 | 0.0013 | . | 0.022 | . | 0.0019i | 0.0028i | 0.0020 | 0.008 | (0.0035) | . | 0.013 | 0.0031 |
| SRM 1240c | . | . | . | (0.000011) | . | . | (0.00065) | . | 0.0181 | . | . | . | . | (0.0009) | . | . | (0.0004) | (<0.0001) |
| alloy 3005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-3005 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL 325/03 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-X3005-AB | . | . | . | 0.0011 | 0.008 | 0.0017 | 0.0020 | . | 0.020 | . | 0.0018i | 0.0018i | 0.0030 | 0.009 | 0.0020 | . | 0.018 | 0.0021 |
| ALC-3005-AD | . | . | . | 0.0011 | 0.0077 | 0.0026 | 0.0011 | . | 0.02 | . | 0.0023i | 0.0022i | 0.0035 | 0.008 | 0.0024 | . | 0.019 | 0.003 |
| alloy 3006 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3007 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| PY 905 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.0087 | . | . | 0.0054 | . |
| alloy 3008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3009 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 3010 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3011 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3012 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 322/03 | . | . | . | . | 0.0020 | . | . | . | . | . | . | . | . | 0.0041 | . | . | . | . |
| ALC-X3012-AA | . | . | . | 0.0012 | 0.0078 | 0.0015i | 0.0014 | . | 0.020 | . | 0.0012i | 0.0014i | 0.0036 | 0.0085 | 0.002 | . | 0.022 | 0.0019i |
| V 2407 | . | . | 0.0050 | . | . | . | . | . | . | . | . | . | . | 0.0020 | . | . | . | . |
| alloy 3014 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 631/01 | . | . | . | . | . | . | . | . | . | . | . | (0.0004) | . | 0.006 | . | . | . | . |
| alloy 3016 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 312/01 | . | . | . | . | . | . | . | . | . | . | . | 0.0051i | . | 0.027 | . | . | . | . |
| alloy 3017 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3018 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.01 | . | . | . | . |
| alloy 3019 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3020 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3025 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3030 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3102 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-3102 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | 0.001i | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AJ 006 | . | . | 0.0003 | 0.0044 | 0.054 | . | . | 0.049 | 0.058 | . | . | . | . | 0.051 | 0.060 | . | 0.052 | . |
| AL 136/03 | . | . | 0.0002 | 0.00019 | 0.0002 | (0.0002) | <0.0001 | 0.0005 | 0.030 | . | 0.00003 | 0.0009 | 0.0009 | 0.0010 | 0.0016 | . | 0.0003 | <0.0001 |
| ALC-3102-AD | . | . | . | 0.0010 | 0.0082 | 0.0016 | 0.0012 | . | 0.019 | . | 0.0014i | 0.0010i | 0.0030 | 0.009 | 0.0035 | . | 0.021 | 0.0018i |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---|----------------|-------|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------|--------|---------|-------------|
| | alloy 3103 | 3103 | | <0.10 | <0.10 | <0.70 | <0.30 | 0.90-1.50 | <0.05 | <0.50 | <0.05 | . | <0.20 | . | |
| 2 | AA ST2-3000 | 3103 | cast | 0.01i | 0.15i | 0.50 | 0.03i | 1.2i | 0.01i | 0.20i | 0.02i | 0.01i | 0.05i | 0.001i | 64 x 25 |
| 1 | V 2410-2 | 3103 | cast | 0.048i | 0.105 | 0.574 | 0.0135 | 0.967 | 0.0025 | 0.2691 | 0.0132 | 0.0053 | 0.0286 | 0.0043 | 60 x 20 |
| 1 | V 2417-1 | 3103 | cast | 0.016 | 0.097 | 0.48 | 0.050 | 1.12 | 0.017 | 0.23 | 0.018 | 0.011 | 0.025 | 0.0019 | 60 x 20 |
| | alloy 3104 | 3104 | | <0.05 | 0.05-0.25 | <0.80 | 0.80-1.30 | 0.80-1.40 | <0.05 | <0.60 | <0.10 | <0.05 | <0.25 | . | |
| 1 | 511X G3000B 4C | 3104 | cast | 0.012i | 0.086 | 0.440 | 1.267 | 0.916 | 0.0347 | 0.130 | 0.052 | 0.0199 | 0.058 | . | 50 x 20 |
| 2 | AA SS-3104 | 3104 | cast | 0.015i | 0.20i | 0.42i | 1.2i | 1.0i | 0.005i | 0.25i | 0.020i | 0.015i | 0.01i | <0.0030 | 64 x 25 |
| 2 | ALC-3104-AW | 3104 | wrought, Mo | 0.027 | 0.22 | 0.48 | 1.19 | 0.94 | 0.024 | 0.27 | 0.029 | 0.020 | 0.16 | 0.0020 | 57 x 25 |
| 2 | PY 68452 | 3104 | cast | 0.03 | 0.11 | 0.31 | 0.88 | 1.14 | 0.02 | 0.16 | 0.06 | . | 0.1 | . | 55 x 30 |
| | alloy 3105 | 3105 | | <0.20 | <0.30 | <0.70 | 0.20-0.80 | 0.30-0.80 | <0.05 | <0.60 | <0.10 | . | <0.40 | . | |
| 2 | AA SS-3105 | 3105 | cast | 0.05i | 0.15i | 0.50 | 0.50 | 0.40 | 0.02i | 0.20i | 0.01i | 0.01i | 0.20i | <0.0030 | 64 x 25 |
| 3 | AJ 009 | 3105 | cast | 0.099 | 0.182 | 0.628 | 0.492 | 0.578 | 0.031 | 0.321 | 0.097 | 0.023 | 0.150 | 0.021 | 55 x 25 |
| 1 | AL 313/01 | 3105 | cast | 0.031 | 0.100 | 0.50 | 0.23 | 0.65 | 0.022 | 0.140 | 0.020 | . | 0.037 | . | 60 x 25 |
| 2 | ALC-3105-AH | 3105 | wrought | 0.16 | 0.25 | 0.59 | 0.52 | 0.54 | 0.021 | 0.51 | 0.045 | 0.021 | 0.13 | 0.0026 | 57 x 25 |
| 2 | ALC-B3S-AF | 3105 | wrought | 0.027 | 0.043 | 0.48 | 0.35 | 0.88 | 0.036 | 0.27 | 0.032 | 0.012 | 0.051 | . | 57 x 25 |
| | alloy 3107 | 3107 | | <0.05 | 0.05-0.15 | <0.70 | <0.05 | 0.40-0.90 | <0.05 | <0.60 | <0.10 | . | <0.20 | . | |
| 1 | AL 321/01 | 3107 | cast | 0.020 | 0.100 | 0.051 | 0.110 | 0.76 | 0.022 | 0.348 | 0.15 | 0.031 | 0.010 | . | 60 x 25 |
| | alloy 3203 | 3203 | | <0.05 | <0.05 | <0.70 | <0.05 | 1.00-1.50 | <0.05 | <0.60 | <0.05 | . | <0.10 | . | |
| 2 | ALC-3203-AG | 3203 | wrought | 0.029 | 0.052 | 0.54 | 0.032 | 1.14 | 0.033 | 0.33 | 0.029 | 0.025 | 0.039 | 0.0039 | 57 x 25 |
| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| | alloy 3204 | 3204 | | <0.05 | 0.10-0.25 | <0.70 | 0.80-1.50 | 0.80-1.50 | <0.05 | <0.30 | <0.05 | . | <0.25 | . | |
| 2 | AA ST1-3000 | 3204 | cast | 0.01i | 0.15i | 0.50 | 1.0i | 1.2i | 0.01i | 0.20i | 0.02i | 0.01i | 0.05i | 0.001i | 64 x 25 |
| 2 | ALC-3204-AA | 3204 | wrought | 0.027 | 0.21 | 0.43 | 1.34 | 0.91 | 0.031 | 0.23 | 0.035 | 0.022 | 0.028 | 0.0029 | 57 x 25 |
| | alloy 3207 | 3207 | | <0.05 | <0.10 | <0.45 | <0.10 | 0.40-0.80 | <0.05 | <0.30 | <0.05 | . | <0.10 | . | |
| | alloy 3303 | 3303 | | <0.05 | 0.05-0.20 | <0.70 | <0.05 | 1.00-1.50 | <0.05 | <0.60 | <0.05 | . | <0.30 | . | |
| | alloy 3307 | 3307 | | <0.20 | <0.30 | <0.80 | <0.30 | 0.50-0.90 | <0.05 | <0.60 | <0.10 | . | <0.40 | . | |
| 1 | AL 333/02 | 3307 | cast | 0.023 | 0.050 | 0.77 | 0.041 | 0.90 | 0.011 | 0.100 | 0.024 | . | 0.021 | . | 60 x 25 |
| 2 | ALC-3916-AA | 3916 | wrought | 0.030 | 0.75 | 0.17 | 0.0025i | 1.38 | 0.088 | 0.220 | 0.028 | 0.02 | 0.030 | 0.0029 | 57 x 25 |
| | alloy 4002 | 4002 | | <0.05 | 0.05-0.15 | <0.35 | 0.05-0.15 | <0.03 | <0.05 | 3.50-4.50 | <0.02 | . | <0.15 | . | |
| 2 | ALC-4002-AD | 4002 | wrought | 0.019 | 0.15 | 0.39 | 0.14 | 0.032 | 0.0027 | 4.38 | 0.019 | 0.007 | 0.028 | . | 57 x 25 |
| | alloy 4004 | 4004 | | <0.05 | <0.25 | <0.80 | 1.00-2.00 | <0.10 | <0.05 | 9.00-10.5 | <0.05 | . | <0.20 | . | |
| | alloy 4006 | 4006 | | <0.20 | <0.10 | 0.50-0.80 | <0.01 | <0.05 | <0.05 | 0.80-1.20 | <0.05 | . | <0.05 | . | |
| | alloy 4007 | 4007 | | 0.05-0.25 | <0.20 | 0.40-1.00 | <0.20 | 0.80-1.50 | 0.15-0.70 | 1.00-1.70 | <0.10 | . | <0.10 | . | |
| 2 | ALC-4007-AA | 4007 | wrought | 0.091 | 0.011 | 0.55 | 0.008 | 1.43 | 0.21 | 1.62 | 0.029 | 0.015 | 0.029 | 0.0022 | 57 x 25 |
| | alloy 4008 | 4008 | | <0.05 | <0.05 | <0.09 | 0.30-0.45 | <0.05 | <0.05 | 6.50-7.50 | 0.04-0.15 | . | <0.05 | . | |
| | alloy 4009 | 4009 | | <0.05 | 1.00-1.50 | <0.20 | 0.45-0.60 | <0.10 | <0.05 | 4.50-5.50 | <0.20 | . | <0.10 | . | |
| | alloy 4010 | 4010 | | <0.05 | <0.20 | <0.20 | 0.30-0.45 | <0.10 | <0.05 | 6.50-7.50 | <0.20 | . | <0.10 | . | |
| | alloy 4011 | 4011 | | <0.05 | <0.20 | <0.20 | 0.45-0.70 | <0.10 | <0.05 | 6.50-7.50 | 0.04-0.20 | . | <0.10 | . | |
| | alloy 4013 | 4013 | | <0.05 | 0.05-0.20 | <0.35 | 0.05-0.20 | <0.03 | <0.05 | 3.50-4.50 | <0.02 | . | <0.05 | . | |
| 2 | ALC-X4002-AA | 4013 | wrought | 0.028 | 0.13 | 0.29 | 0.13 | 0.037 | 0.038 | 4.10 | 0.019 | 0.027 | 0.045 | 0.014 | 57 x 25 |
| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|----------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|-----------|----------|----------|---------|---------|---------|---------|---------|
| alloy 3103 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA ST2-3000 | <0.0010 | . | <0.0005 | 0.0005 | 0.001i | . | 0.001i | 0.001i | 0.02i | 0.003i | . | . | . | 0.003i | 0.001i | . | 0.001i | 0.001i |
| V 2410-2 | . | . | 0.0015 | 0.0028 | 0.0005 | 0.0013 | 0.0026 | 0.0042 | 0.0302 | 0.0011 | 0.0005 | 0.0004 | 0.0021 | 0.0021 | 0.001 | . | 0.003 | 0.0011 |
| V 2417-1 | . | . | 0.0007 | 0.0009 | 0.0053 | 0.0007 | 0.0009 | 0.0010 | 0.020 | . | 0.0005 | 0.0011 | 0.0023 | 0.0079 | 0.0035 | . | 0.011 | 0.0006 |
| alloy 3104 | . | . | . | . | . | . | . | . | <0.05 | . | . | . | . | . | . | . | . | . |
| 511X G3000B 4C | . | . | . | 0.0140 | . | . | . | . | 0.0284 | . | . | . | . | 0.0285 | . | . | 0.0456 | . |
| AA SS-3104 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015i | . | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | 0.001i | <0.0010 |
| ALC-3104-AW | <0.0001 | <0.0001 | 0.0002 | 0.0011 | 0.0075i | 0.0028 | 0.0012 | 0.0001 | 0.020 | <0.0001 | 0.0024i | 0.0018i | 0.0021 | 0.0077 | 0.0018 | . | 0.015 | 0.0024i |
| PY 68452 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02 | . | . | 0.02 | . |
| alloy 3105 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-3105 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | 0.001i | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AJ 009 | . | . | (0.002) | 0.0026 | 0.020 | 0.0023 | 0.0097 | 0.0092 | 0.038 | . | (0.00014) | (0.0018) | (0.0036) | 0.019 | . | . | 0.020 | 0.0034 |
| AL 313/01 | . | . | . | . | . | . | . | . | . | . | . | 0.0030i | . | 0.020 | . | . | . | . |
| ALC-3105-AH | . | . | . | 0.0010 | 0.0081 | 0.0023 | 0.0013 | . | 0.021 | . | 0.0017i | 0.0022i | 0.0031 | 0.0086 | 0.0026 | . | 0.020 | 0.0021 |
| ALC-B3S-AF | . | . | . | 0.007 | 0.037 | . | . | . | 0.015 | . | 0.003 | . | 0.0001 | 0.038 | . | . | 0.045 | . |
| alloy 3107 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 321/01 | . | . | . | . | . | . | . | . | . | . | . | 0.0011 | . | 0.021 | . | . | . | . |
| alloy 3203 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-3203-AG | . | . | . | 0.0011 | 0.028 | 0.0022i | 0.0016 | . | 0.022 | . | 0.0017i | 0.0021i | 0.0069 | 0.021 | 0.0042 | . | 0.023 | 0.0023i |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|---------|----|---------|-----------|-----------|---------|-----------|--------|-------|--------|---------|---------|--------|--------|--------|----|--------|---------|
| alloy 3204 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA ST1-3000 | <0.0010 | . | <0.0005 | 0.0005 | 0.001i | . | 0.001i | 0.0001 | 0.02i | 0.003i | . | . | . | 0.003i | 0.001i | . | 0.001i | 0.001i |
| ALC-3204-AA | . | . | . | 0.0010 | 0.017 | 0.0024i | . | . | 0.018 | . | 0.0016i | 0.0018i | 0.001 | 0.012 | . | . | 0.013 | 0.0026i |
| alloy 3207 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3303 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 3307 | . | . | . | . | . | . | . | . | . | . | . | 0.0005 | . | 0.0038 | . | . | . | . |
| AL 333/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-3916-AA | . | . | . | 0.0011i | 0.0087i | 0.0016i | 0.0008 | . | 0.019 | . | 0.0017i | 0.0021i | 0.0034 | 0.0081 | 0.0033 | . | 0.02 | 0.0017i |
| alloy 4002 | . | . | . | . | . | . | 0.80-1.40 | . | . | . | . | . | . | . | . | . | . | . |
| ALC-4002-AD | . | . | . | . | 0.018 | . | 1.28 | . | 0.016 | . | . | . | . | 0.022 | . | . | 0.028 | . |
| alloy 4004 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4006 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4007 | . | . | . | . | . | . | . | <0.05 | . | . | . | . | . | . | . | . | . | . |
| ALC-4007-AA | . | . | . | 0.0011 | 0.007 | 0.0011i | 0.0012 | . | 0.019 | . | 0.0009i | 0.0012i | 0.0023 | 0.0041 | 0.0042 | . | 0.0022 | 0.0012i |
| alloy 4008 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4009 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4010 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4011 | . | . | . | 0.04-0.07 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4013 | . | . | . | . | 0.60-1.50 | . | <0.05 | . | . | . | . | . | . | . | . | . | . | . |
| ALC-X4002-AA | . | . | . | . | 1.06i | 0.0065i | 0.041 | . | 0.031 | . | 0.0022i | 0.0016 | 0.006 | 0.034 | . | . | 0.029 | 0.008 |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------------------|--------------|---------|-----------------|--------------------|----------------|-------------------|-------------------|------------------|-------------------|-----------------|--------|-----------------|--------|--------------|
| alloy 4014 | 4014 | | <0.05 | <0.20 | <0.70 | 0.30-0.80 | <0.35 | <0.05 | 1.40-2.20 | <0.05 | . | <0.20 | . | |
| alloy 4015 | 4015 | | <0.05 | <0.20 | <0.70 | 0.10-0.50 | 0.60-1.20 | <0.05 | 1.40-2.20 | <0.05 | . | <0.20 | . | |
| alloy 4016 | 4016 | | <0.05 | <0.20 | <0.70 | <0.10 | 0.60-1.20 | <0.05 | 1.40-2.20 | <0.05 | . | 0.50-1.30 | . | |
| 1 alloy 4017 AL 323/02 | 4017 4017 | cast | <0.05 0.011 | 0.10-0.50 0.205 | <0.70 0.62 | 0.10-0.50 0.34 | 0.60-1.20 1.03 | <0.05 0.012 | 0.60-1.60 0.51 | <0.05 0.0282 | . | <0.20 0.156 | 0.010 | 60 x 25 last |
| alloy 4018 | 4018 | | <0.05 | <0.05 | <0.20 | 0.50-0.80 | <0.10 | <0.05 | 6.50-7.50 | <0.20 | . | <0.10 | . | |
| alloy 4019 | 4019 | | <0.05 | <0.05 | 4.60-5.40 | <0.05 | <0.05 | 1.80-2.20 | 18.5-21.5 | <0.05 | . | <0.05 | . | |
| alloy 4026 | 4026 | | <0.05 | 2.50-3.50 | <0.50 | 0.70-1.40 | <0.05 | <0.05 | 9.00-11.5 | <0.05 | . | <0.10 | . | |
| 2 alloy 4032 AA SS-4032 | 4032 4032 | cast | <0.10 0.05 | 0.50-1.30 0.9 | <1.00 0.25 | 0.80-1.30 1.1 | <0.05 0.02 | 0.50-1.30 0.9 | 11.0-13.5 11.7 | <0.05 0.02 | . | <0.25 0.1 | . | 64 x 25 |
| 1 alloy 4043 V 3001-3 | 4043 4043 | cast | <0.05 0.0015 | <0.30 0.07 | <0.80 0.247 | <0.05 0.205 | <0.05 0.219 | <0.05 0.17 | 4.50-6.00 5.11 | <0.20 0.155 | 0.0094 | <0.10 0.0766 | 0.0014 | 60 x 20 |
| alloy 4044 | 4044 | | <0.05 | <0.25 | <0.80 | <0.05 | <0.10 | <0.05 | 7.80-9.20 | <0.05 | . | <0.20 | . | |
| 1 alloy 4045 AL 411/04 | 4045 4045 | cast | <0.05 0.0106 | <0.30 0.0102 | <0.80 0.134 | <0.05 0.0105 | <0.05 0.0243 | <0.05 0.0129 | 9.00-11.0 9.60 | <0.20 0.0154 | 0.0056 | <0.10 0.0156 | 0.0051 | 60 x 25 |
| 2 ALC-X4045-AC | 4045 M | wrought | 0.013 | 0.015 | 0.32 | 0.015 | 0.013 | 0.014 | 10.03 | 0.013 | 0.012 | 0.99 | 0.0031 | 57 x 25 |
| alloy 4046 | 4046 | | <0.05 | <0.03 | <0.50 | 0.20-0.50 | <0.40 | <0.05 | 9.00-11.0 | <0.15 | . | <0.10 | . | |
| 1 AL 412/08 | 4046 | cast | 0.031 | 0.037 | 0.375 | 0.25 | 0.156 | 0.024 | 10.26 | 0.111 | . | 0.051 | . | 60 x 25 |
| 1 AL 417/03 | 4046 | cast | 0.0015 | 0.0055 | 0.134 | 0.220 | 0.0169 | 0.0029 | 11.02 | 0.0477 | . | 0.0196 | . | 60 x 25 |
| 1 AL 422/03 | 4046 | cast | 0.019 | 0.020 | 0.190 | 0.346 | 0.107 | 0.022 | 9.41 | 0.049 | 0.0083 | 0.052 | 0.0098 | 60 x 25 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------------------|------------------|---------|-----------------|-------------------|----------------|--------------------|-----------------|-----------------|--------------------|----------------|--------|-----------------|---------|-------------|
| alloy 4047 | 4047 | | <0.05 | <0.30 | <0.80 | <0.10 | <0.15 | <0.05 | 11.0-13.0 | <0.05 | . | <0.20 | . | |
| 1 BAM EB316 | 4047 | cast | 0.00593 | 0.2970 | 0.1054 | 0.045 | 0.204 | 0.0235 | 11.98 | 0.0790 | 0.0098 | 0.0611 | 0.00328 | 50 x 30 |
| 1 V 3005-3 | 4047 | cast | 0.0059 | 0.11 | 0.43 | 0.33 | 0.38 | 0.12 | 13.60 | 0.090 | 0.0045 | 0.13 | 0.0020 | 60 x 20 |
| 1 V 3110-1 | 4047 | cast | 0.021 | 0.0020 | 0.18 | 0.15 | 0.053 | 0.0024 | 9.84 | 0.053 | 0.0057 | 0.021 | 0.0014 | 60 x 20 |
| 1 V 3164-4 | 4047 | cast | 0.0052 | 0.023 | 0.068 | 0.043 | 0.067 | 0.0023 | 11.89 | 0.022 | 0.0045 | 0.046 | 0.0049 | 60 x 20 |
| 1 V 3165-1 | 4047 | cast | 0.0008 | 0.0046 | 0.20 | 0.20 | 0.14 | 0.0035 | 12.00 | 0.16 | 0.010 | 0.060 | 0.0019 | 60 x 20 |
| 1 V 3167-1 | 4047 | cast | 0.0005 | 0.0080 | 0.26 | 0.068 | 0.076 | 0.0027 | 11.05 | 0.032 | 0.0004 | 0.010 | 0.0014 | 60 x 20 |
| alloy 4048 | 4048 | | <0.07 | 3.30-4.70 | <0.80 | <0.07 | <0.07 | <0.05 | 9.30-10.7 | <0.05 | . | 9.30-10.7 | . | |
| 2 alloy 4104 ALC-4104-AE | 4104 4104 | wrought | <0.05 0.030 | <0.25 0.10 | <0.80 0.59 | 1.00-2.00 1.48 | <0.10 0.050 | <0.05 0.030 | 9.00-10.5 10.06 | <0.05 0.027 | . | <0.20 0.10 | 0.0025 | 57 x 25 |
| 2 alloy 4145 ALC-4145-AB | 4145 4145 | wrought | <0.15 0.050 | 3.30-4.70 4.12 | <0.80 0.54 | <0.15 0.050 | <0.15 0.050 | <0.05 0.054 | 9.30-10.7 10.66 | <0.05 0.046 | . | <0.20 0.058 | 0.0028 | 57 x 25 |
| 1 alloy 4147 AL 414/05 | 4147 4147 MOD | cast | <0.05 0.010 | <0.25 0.102 | <0.80 0.40 | 0.10-0.50 0.490 | <0.10 0.25 | <0.05 0.013 | 11.0-13.0 11.7 | <0.05 0.069 | 0.0096 | <0.20 0.096 | 0.010 | 60 x 25 |
| 1 AL 423/03 | 4147 | cast | 0.010 | 0.0094 | 0.210 | 0.246 | 0.062 | 0.011 | 11.2 | 0.028 | 0.0117 | 0.021 | 0.0067 | 60 x 25 |
| 2 alloy 4343 ALC-4343-AF | 4343 4343 | wrought | <0.05 0.032 | <0.25 0.050 | <0.80 0.50 | <0.05 0.031 | <0.10 0.052 | <0.05 0.029 | 6.80-8.20 7.84 | <0.05 0.031 | . | <0.20 0.050 | 0.0029 | 57 x 25 |
| 2 ALC-X4343-AA | 4343 M | wrought | 0.025 | 0.048 | 0.53 | 0.051 | 0.046 | 0.029 | 7.57 | 0.031 | 0.028 | 0.98 | 0.026 | 57 x 25 |
| 2 ALC-135-AQ | 4343 | wrought | 0.040 | 0.053 | 0.18 | 0.037 | 0.035 | 0.038 | 7.4 | 0.015 | 0.012 | 0.044 | . | 57 x 25 |
| 1 alloy 4543 AL 453/01 | 4543 4543 | cast | <0.05 0.0123 | <0.10 0.022 | <0.50 0.179 | 0.10-0.40 0.345 | <0.05 0.0522 | <0.05 0.0118 | 5.00-7.00 6.48 | <0.10 0.068 | . | <0.10 0.0184 | 0.0099 | 60 x 25 |
| 2 ALC-462A1-AA | 4621 | wrought | 0.028 | 3.86 | 0.15 | 1.050 | 0.025 | 1.07 | 12.12 | 0.17 | 0.02 | 0.031 | 0.0035 | 57 x 25 |
| 2 alloy 4643 ALC-4643-AD | 4643 4643 | wrought | <0.05 0.029 | <0.10 0.029 | <0.80 0.25 | 0.10-0.30 0.111 | <0.05 0.029 | <0.05 0.029 | 3.60-4.60 3.88 | <0.15 0.028 | . | <0.10 0.029 | 0.0032 | 57 x 25 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|----|----|---------|---------|-----------|----------|---------|---------|--------|----|---------|---------|----------|--------|---------|----|--------|---------|
| alloy 4014 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4016 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4017 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 323/02 | . | . | . | . | 0.0052 | . | . | . | . | . | 0.00010 | 0.0010 | . | . | . | . | . | . |
| alloy 4018 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4019 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4026 | . | . | . | . | 1.00-2.00 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4032 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-4032 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.03 |
| alloy 4043 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 3001-3 | . | . | <0.0002 | <0.0001 | <0.0002 | 0.0035 | <0.0002 | <0.0002 | 0.0108 | . | . | . | <0.0005 | 0.0572 | <0.0004 | . | 0.0416 | 0.0409 |
| alloy 4044 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4045 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 411/04 | . | . | . | . | . | 0.00054i | . | . | . | . | . | 0.0046i | (0.0009) | 0.0050 | . | . | 0.0051 | . |
| ALC-X4045-AC | . | . | . | 0.0009 | 0.008 | 0.0024i | 0.0013 | . | 0.016 | . | 0.0019i | 0.0014i | 0.0058 | 0.008 | 0.0038 | . | 0.012 | 0.0029i |
| alloy 4046 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 412/08 | . | . | . | . | 0.0046 | 0.0089 | . | . | . | . | . | 0.0015 | 0.0068 | 0.0114 | . | . | . | 0.0215 |
| AL 417/03 | . | . | . | . | . | 0.0005 | 0.0037 | . | 0.0098 | . | . | 0.0012i | . | 0.0030 | . | . | 0.0002 | 0.0460i |
| AL 422/03 | . | . | <0.0002 | . | . | 0.0088 | . | 0.401 | 0.010 | . | . | 0.0038i | 0.0015 | 0.0047 | 0.0047 | . | 0.0030 | . |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|----------|----|------------|----------|-----------|-----------|---------|------------|--------|----------|------------|---------|----------|--------|----------|----|----------|---------|
| alloy 4047 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| BAM EB316 | (0.0183) | . | (<0.00015) | 0.000295 | 0.0140 | (0.00113) | 0.00208 | (<0.00015) | 0.0105 | (0.0035) | (0.000100) | . | . | 0.0087 | (0.0056) | . | (0.0106) | 0.0206 |
| V 3005-3 | . | . | . | . | . | 0.0086 | . | . | 0.012 | . | . | . | 0.0006 | 0.079 | <0.0002 | . | 0.043 | 0.0007 |
| V 3110-1 | . | . | <0.0003 | 0.0037 | <0.0005 | 0.0039 | <0.0002 | <0.0004 | 0.010 | . | <0.0002 | <0.0002 | 0.0015 | 0.0009 | 0.091 | . | <0.0004 | 0.0003 |
| V 3164-4 | . | . | <0.0002 | <0.0001 | <0.0002 | 0.0067 | <0.0002 | <0.0002 | 0.010 | . | <0.0001 | 0.0005 | <0.0004 | 0.0008 | <0.0004 | . | <0.0003 | 0.054 |
| V 3165-1 | . | . | <0.0003 | <0.0001 | <0.0004 | 0.010 | <0.0001 | 0.0002 | 0.0069 | . | <0.0001 | <0.0002 | 0.0006 | 0.0011 | 0.0081 | . | 0.0009 | 0.14 |
| V 3167-1 | . | . | <0.0002 | . | <0.0002 | 0.0010 | <0.0002 | <0.0003 | 0.0066 | . | . | . | 0.0006 | 0.0010 | <0.0003 | . | <0.0001 | 0.0059 |
| alloy 4048 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 4104 | . | . | . | . | 0.02-0.20 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-4104-AE | . | . | . | 0.0012 | 0.11 | 0.0029 | 0.0013 | . | 0.019 | . | 0.0024 | 0.0024 | 0.0027 | 0.028 | 0.0028 | . | 0.033 | 0.0030 |
| alloy 4145 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-4145-AB | . | . | . | 0.0012 | 0.032 | 0.0023 | 0.0012 | . | 0.019 | . | 0.0016i | 0.0018i | 0.0033i | 0.031 | (0.0038) | . | 0.030 | 0.0031 |
| alloy 4147 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 414/05 | . | . | . | . | . | 0.0039 | 0.0013 | 0.0092 | 0.0041 | 0.0004 | 0.00056 | 0.00017 | 0.0028 | 0.0017 | 0.0016 | . | 0.0047 | 0.033 |
| AL 423/03 | . | . | . | . | . | 0.0009 | 0.0035 | 0.220 | 0.0037 | 0.0011 | 0.0002 | 0.0007 | 0.0011 | 0.0013 | 0.0097 | . | 0.0060 | 0.0005 |
| alloy 4343 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-4343-AF | . | . | . | 0.0013 | 0.037 | 0.0028i | 0.0010 | . | 0.023 | . | 0.0022i | 0.0027i | 0.0042i | 0.021 | 0.0042 | . | 0.018 | 0.011i |
| ALC-X4343-AA | . | . | . | 0.0016 | 0.019 | 0.0023i | . | . | 0.025 | . | 0.0004i | 0.0006i | 0.0019 | 0.016 | . | . | 0.017 | . |
| ALC-135-AQ | . | . | . | . | 0.042 | . | . | . | 0.009 | . | . | . | . | 0.047 | . | . | 0.04 | . |
| alloy 4543 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 453/01 | . | . | . | . | . | 0.0070 | . | . | . | . | . | . | . | 0.0039 | 0.0023 | . | 0.0029 | (0.072) |
| ALC-462A1-AA | . | . | . | 0.0011 | 0.009 | 0.0049 | 0.0012 | . | 0.018 | . | 0.0029 | 0.0053 | (0.0042) | 0.0091 | 0.0023 | . | 0.013 | 0.0027 |
| alloy 4643 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-4643-AD | . | . | . | 0.0012 | 0.0053 | 0.0031i | 0.0011i | . | 0.019 | . | 0.0028i | 0.0032i | 0.0030 | 0.0077 | 0.0031 | . | 0.019 | 0.0098i |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---------------|-------|---------|---------|--------|--------|-----------|-----------|---------|--------|----------|---------|-----------|---------|-------------|
| 2 ALC-5001-BI | 5001 | wrought | 0.049 | 19.5 | 0.30 | 0.053 | 0.050 | 0.052 | 0.36 | 0.049 | 0.025 | 0.045 | 0.0030 | 57 x 25 |
| alloy 5005 | 5005 | | <0.10 | <0.20 | <0.70 | 0.50-1.10 | <0.20 | <0.05 | <0.30 | <0.05 | . | <0.25 | . | |
| 2 AA WA-5005 | 5005 | cast | 0.01i | 0.03i | 0.55 | 0.35 | 0.01i | 0.01i | 0.12i | 0.01i | 0.01i | 0.03i | . | 64 x 25 |
| 2 AA SS-5005 | 5005 | cast | 0.02i | 0.06i | 0.50 | 0.85 | 0.03i | 0.02i | 0.15i | 0.02i | 0.01i | 0.06i | <0.0030 | 64 x 25 |
| 1 AL 513/02 | 5005 | cast | 0.0010 | 0.0033 | 0.0056 | 0.98 | 0.0010 | 0.0012 | 0.0057 | 0.0030 | 0.0012 | 0.0035 | 0.0010 | 60 x 25 |
| 1 AL 521/02 | 5005 | cast | 0.0054 | 0.0104 | 0.056 | 0.493 | 0.0289 | 0.0049 | 0.053 | (0.0033) | . | 0.115 | . | 60 x 25 |
| 1 AL 522/03 | 5005 | cast | 0.0158 | 0.0300 | 0.197 | 1.01 | 0.102 | 0.0103 | 0.203 | 0.0104 | 0.0027 | 0.0219 | . | 60 x 25 |
| 2 ALC-5005-AG | 5005 | wrought | 0.0303 | 0.088 | 0.59 | 1.00 | 0.045 | 0.0254 | 0.217 | 0.024 | 0.024 | 0.0253 | 0.0023 | 57 x 25 |
| 1 PY 2340 | 5005 | cast | 0.0510 | 0.1007 | 0.189 | 1.009 | 0.0016 | 0.0208 | 0.097 | 0.0562 | 0.0349 | 0.0979 | 0.0455 | 55 x 30 |
| 1 PY 2350 | 5005 | cast | 0.0985 | 0.0517 | 0.374 | 0.669 | 0.0506 | 0.0519 | 0.197 | 0.0231 | 0.0273 | 0.0498 | 0.0190 | 55 x 30 |
| 1 PY 6033 | 5005 | cast | 0.0010 | 0.0674 | 0.014 | 1.05 | 0.153 | 0.0181 | 0.019 | 0.0027 | . | 0.2136 | 0.0726 | 55 x 30 |
| 3 V 1114 | 5005 | cast | <0.0005 | 0.0002 | 0.002 | 1.02 | 0.0003 | <0.0005 | 0.021 | <0.0005 | . | 0.0046 | . | 60 x 20 |
| alloy 5006 | 5006 | | <0.10 | <0.10 | <0.80 | 0.80-1.30 | 0.40-0.80 | <0.05 | <0.40 | <0.10 | . | <0.25 | . | |
| alloy 5010 | 5010 | | <0.15 | <0.25 | <0.70 | 0.20-0.60 | 0.10-0.30 | <0.05 | <0.40 | <0.10 | . | <0.30 | . | |
| 1 V 2104-4 | 5010 | cast | 0.0500 | 0.253 | 0.233 | 0.539 | 0.221 | 0.00457 | 0.299 | 0.0832 | 0.01020 | 0.1347 | . | 60 x 20 |
| 2 ALC-5010-AE | 5010 | wrought | 0.025 | 0.032 | 0.44 | 0.57 | 0.26 | 0.022 | 0.18 | 0.025 | 0.024 | 0.027 | 0.0034 | 57 x 25 |
| alloy 5013 | 5013 | | <0.03 | <0.03 | <0.25 | 3.20-3.80 | 0.30-0.50 | <0.03 | <0.20 | <0.10 | . | <0.10 | <0.05 | |
| alloy 5014 | 5014 | | <0.20 | <0.20 | <0.40 | 4.00-5.50 | 0.20-0.90 | <0.05 | <0.40 | <0.20 | . | 0.70-1.50 | . | |
| alloy 5016 | 5016 | | <0.10 | <0.20 | <0.60 | 1.40-1.90 | 0.40-0.70 | <0.05 | <0.25 | <0.05 | . | <0.15 | . | |
| 1 AL 553/01 | 5016 | cast | 0.106 | 0.048 | 0.202 | 1.48 | 0.500 | <0.001 | 0.039 | 0.032 | 0.0245 | 0.021 | . | 60 x 25 |
| 2 ALC-5016-AA | 5016 | wrought | 0.017 | 0.036 | 0.76 | 2.48 | 0.50 | 0.015 | 0.25 | 0.015 | 0.023 | 0.080 | 0.0033 | 57 x 25 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---------------|-------|------------------|-----------|-----------|-----------|-----------|-----------|---------|-------|-----------|--------|-----------|-----------|-------------|
| alloy 5017 | 5017 | | <0.05 | 0.18-0.28 | <0.70 | 1.90-2.20 | 0.60-0.80 | <0.05 | <0.40 | <0.09 | . | <0.05 | . | |
| 2 ALC-5017-AA | 5017 | wrought | 0.016 | 0.28 | 0.40 | 1.95 | 0.70 | 0.030 | 0.37 | 0.036 | 0.009 | 0.026 | 0.014 | 57 x 25 |
| 2 ALC-5017-AB | 5017 | wrought | 0.018 | 0.40 | 0.27 | 2.01 | 0.28 | 0.030 | 0.28 | 0.056 | 0.015 | 0.026 | 0.014 | 57 x 25 |
| alloy 5018 | 5018 | Cr+Mn: 0.20-0.60 | <0.30 | <0.05 | <0.40 | 2.60-3.60 | 0.20-0.60 | <0.05 | <0.25 | <0.15 | . | <0.20 | . | |
| alloy 5019 | 5019 | | <0.20 | <0.10 | <0.50 | 4.50-5.60 | 0.10-0.60 | <0.05 | <0.40 | <0.20 | . | <0.20 | . | |
| 3 V 2503-1 | 5019 | cast | 0.013 | 0.013 | 0.30 | 4.60 | 0.20 | <0.003 | 0.15 | 0.019 | . | 0.031 | . | 60 x 20 |
| 1 V 2504-2 | 5019 | cast | 0.0055 | 0.017 | 0.35 | 5.02 | 0.20 | 0.0027 | 0.15 | 0.051 | . | 0.10 | 0.0010 | 60 x 20 |
| 1 V 2506-2 | 5019 | cast | 0.077 | 0.081 | 0.26 | 5.11 | 0.49 | 0.0022 | 0.27 | 0.088 | 0.0027 | 0.061 | 0.0010 | 60 x 20 |
| 1 V 2507-2 | 5019 | cast | 0.011 | 0.054 | 0.16 | 4.57 | 0.10 | 0.0021 | 0.22 | 0.0096 | 0.0027 | 0.21 | 0.0010 | 60 x 20 |
| 1 V 2510-2 | 5019 | cast | 0.0035 | 0.037 | 0.37 | 5.01 | 0.21 | 0.0047 | 0.98 | 0.046 | 0.0099 | 0.022 | 0.011 | 60 x 20 |
| alloy 5021 | 5021 | | <0.15 | <0.15 | <0.50 | 2.20-2.80 | 0.10-0.50 | <0.05 | <0.40 | <0.05 | . | <0.15 | . | |
| alloy 5022 | 5022 | | <0.10 | 0.20-0.50 | <0.40 | 3.50-4.90 | <0.20 | <0.05 | <0.25 | <0.10 | . | <0.25 | . | |
| alloy 5023 | 5023 | | <0.10 | 0.20-0.50 | <0.40 | 5.00-6.20 | <0.20 | <0.05 | <0.25 | <0.10 | . | <0.25 | . | |
| 1 AL 537C/01 | 5023 | | 0.0045 | 0.252 | 0.249 | 5.83 | 0.147 | 0.0508 | 0.091 | 0.0192 | 0.0051 | 0.1016 | 0.0458 | 55 x 30 |
| alloy 5025 | 5025 | | <0.20 | <0.10 | <0.25 | 4.50-6.00 | <0.20 | <0.05 | <0.25 | 0.05-0.20 | . | <0.25 | 0.10-0.25 | |
| alloy 5034 | 5034 | | <0.10 | <0.40 | 0.40-0.90 | 0.60-1.10 | 0.20-0.50 | <0.05 | <0.40 | <0.10 | . | <0.40 | . | |
| alloy 5039 | 5039 | | 0.10-0.20 | <0.03 | <0.40 | 3.30-4.30 | 0.30-0.50 | <0.05 | <0.10 | <0.10 | . | 2.40-3.20 | . | |
| alloy 5040 | 5040 | | 0.10-0.30 | <0.25 | <0.70 | 1.00-1.50 | 0.90-1.40 | <0.05 | <0.30 | <0.05 | . | <0.25 | . | |
| alloy 5042 | 5042 | | <0.10 | <0.15 | <0.35 | 3.00-4.00 | 0.20-0.50 | <0.05 | <0.20 | <0.10 | . | <0.25 | . | |
| 2 AA SS-5042 | 5042 | cast | <0.0050 | 0.03i | 0.23i | 3.5i | 0.30 | <0.0050 | 0.10i | 0.02i | 0.01i | 0.01i | <0.0030 | 64 x 25 |
| 2 ALC-5042-AC | 5042 | wrought | 0.060 | 0.031i | 0.25 | 3.74 | 0.35 | 0.031 | 0.15 | 0.030 | 0.018 | 0.030 | 0.0016 | 57 x 25 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|---------|---------|----------|---------|---------|---------|---------|---------|--------|---------|----------|----------|---------|---------|---------|-----------|---------|---------|
| ALC-5001-BI | . | . | . | 0.0012 | 0.052 | 0.0018 | 0.0013 | . | 0.020 | . | 0.0020i | 0.0011i | 0.0039i | 0.048 | 0.0040 | . | 0.047 | 0.0027i |
| alloy 5005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA WA-5005 | . | . | . | . | 0.03i | . | . | . | . | . | . | . | . | 0.03i | . | . | 0.01i | . |
| AA SS-5005 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL 513/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 521/02 | . | . | (0.0025) | . | . | . | . | 0.0045 | . | . | . | 0.0020i | 0.0028 | . | . | . | . | . |
| AL 522/03 | . | . | . | 0.0039 | . | 0.0010 | 0.0010 | . | 0.0051 | . | . | 0.0011 | . | 0.0039 | . | . | . | . |
| ALC-5005-AG | . | . | . | 0.0012 | 0.0084 | 0.0026 | 0.0011 | . | 0.023 | . | 0.0024i | 0.0022i | 0.0025 | 0.0076 | 0.0018 | . | 0.021 | 0.0026 |
| PY 2340 | . | . | . | 0.00127 | . | . | . | . | . | . | . | . | . | 0.0302 | . | . | 0.0996 | . |
| PY 2350 | . | . | . | 0.00044 | . | . | . | . | . | . | . | . | . | 0.0106 | . | . | 0.0203 | . |
| PY 6033 | . | . | . | 0.00002 | . | . | . | . | . | . | . | 0.00005 | . | 0.0135 | . | . | 0.0205 | . |
| V 1114 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5006 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5010 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 2104-4 | 0.00072 | . | <0.0002 | 0.00411 | 0.00030 | 0.00015 | 0.00943 | 0.00082 | 0.0132 | 0.00135 | 0.00026 | 0.00028 | . | 0.0105 | . | . | 0.00034 | . |
| ALC-5010-AE | . | . | . | 0.0014 | 0.023 | 0.0031i | 0.0016 | . | 0.026 | . | 0.0034i | 0.0031i | 0.0058i | 0.016 | . | . | 0.018 | 0.0020i |
| alloy 5013 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.003 | . | . | . | . |
| alloy 5014 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5016 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 553/01 | . | . | . | . | . | . | . | . | . | . | . | (0.0027) | . | 0.020 | . | . | . | . |
| ALC-5016-AA | . | . | . | 0.0038 | 0.019i | 0.0031i | 0.0012 | . | 0.023 | . | 0.0028i | 0.0026i | 0.0014i | 0.014 | 0.0025 | . | 0.014 | 0.0029i |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 5017 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-5017-AA | . | . | . | 0.0030 | 0.02 | 0.0050 | . | . | 0.026 | . | 0.0040 | 0.0044 | . | 0.026 | . | . | 0.027 | 0.0022 |
| ALC-5017-AB | . | . | . | 0.0035 | 0.013 | 0.0054 | . | . | 0.020 | . | 0.0046i | 0.0042 | 0.001 | 0.020 | . | . | 0.021 | . |
| alloy 5018 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5019 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 2503-1 | . | . | . | 0.0026 | . | 0.0002 | . | . | . | . | 0.0045 | 0.0031 | . | 0.0023 | . | . | . | . |
| V 2504-2 | . | . | <0.0002 | 0.0002 | <0.002 | 0.0004 | . | <0.0005 | 0.011 | . | 0.0006 | 0.0007 | . | 0.049 | . | . | . | . |
| V 2506-2 | . | . | 0.0002 | 0.0026 | 0.032 | 0.0002 | <0.0002 | <0.0002 | 0.011 | . | 0.0007 | 0.0013 | . | 0.0097 | . | . | 0.0003 | . |
| V 2507-2 | . | . | <0.0003 | 0.0050 | 0.027 | 0.0026 | <0.0002 | <0.0002 | 0.012 | . | 0.0026 | 0.0004 | . | 0.0068 | . | . | 0.0003 | . |
| V 2510-2 | . | . | <0.0002 | 0.0004 | . | 0.0007 | . | 0.0002 | 0.0042 | . | 0.0052 | 0.0079 | . | 0.0089 | . | . | 0.0088 | . |
| alloy 5021 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5022 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5023 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 537C/01 | . | . | . | 0.00066 | . | 0.00174 | 0.0020 | . | 0.0049 | 0.0023 | <0.00005 | 0.00045 | . | 0.0100 | . | . | 0.0204 | . |
| alloy 5025 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | 0.05-0.55 | . | . |
| alloy 5034 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5039 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5040 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5042 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5042 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-5042-AC | . | . | . | 0.0013 | 0.009 | 0.0036i | 0.0012 | . | 0.020 | . | 0.0043i | 0.0029i | 0.0008 | 0.0081 | 0.0012 | . | 0.015 | 0.0028i |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|-----------------------------|-------|--------------------------|-------------------------------------|-----------------|----------------|--------------------|--------------------|------------------|----------------|-----------------|-------------|-----------------|-----------|---------------|
| alloy 5043 | 5043 | | <0.05 | 0.05-0.35 | <0.70 | 0.70-1.30 | 0.70-1.20 | <0.05 | <0.40 | <0.10 | <0.05 | <0.25 | . | |
| 1 alloy 5049 AL 552/02 | 5049 | cast | <0.30 0.198 | <0.10 0.099 | <0.50 0.097 | 1.60-2.50 1.95 | 0.50-1.10 0.798 | <0.05 0.0048 | <0.40 0.144 | <0.10 0.0100 | . 0.0092 | <0.20 0.061 | 0.0050 | 60 x 25 |
| 2 alloy 5050 AA SS-5050 | 5050 | cast | <0.10 0.03i | <0.20 0.05i | <0.70 0.45 | 1.10-1.80 1.4i | <0.10 0.04i | <0.05 0.03i | <0.40 0.18i | <0.05 0.02i | . 0.01i | <0.25 0.04i | <0.0030 | 64 x 25 |
| alloy 5051 | 5051 | | <0.10 | <0.25 | <0.70 | 1.70-2.20 | <0.20 | <0.05 | <0.40 | <0.10 | . | <0.25 | . | |
| 2 alloy 5052 AA SS-5052 | 5052 | cast | 0.15-0.35 0.25 | <0.10 0.06i | <0.40 0.20i | 2.20-2.80 2.6i | <0.10 0.05i | <0.05 0.05i | <0.25 0.15i | <0.05 0.01i | . 0.01i | <0.10 0.08i | <0.0030 | 64x25 or 25x6 |
| 2 alloy 5052 AA ST2-5052 | 5052 | cast | 0.25 | 0.10i | 0.30 | 2.7i | 0.05i | 0.02i | 0.15i | 0.03i | 0.015 | 0.03i | 0.004i | 64 x 25 |
| 2 alloy 5052 AA WA-5052 | 5052 | cast | 0.30 | 0.10i | 0.10i | 2.2i | 0.02i | 0.01i | 0.25 | <0.0050 | . | 0.12i | . | 64 x 25 |
| 2 alloy 5052 AA WB-5052 | 5052 | cast | 0.15i | 0.02i | 0.30 | 2.8i | 0.10i | 0.03i | 0.08i | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 alloy 5052 ALC-5052-AN | 5052 | wrought | 0.26 | 0.080 | 0.25 | 2.68 | 0.073 | 0.028 | 0.20 | 0.059 | 0.019 | 0.032 | 0.0028 | 57 x 25 |
| 3 alloy 5056 AJ 019 | 5056 | cast | 0.05-0.20 0.147 | <0.10 0.014 | <0.40 0.20i | 4.50-5.60 5.0i | 0.05-0.20 0.203 | <0.05 0.011 | <0.30 0.104 | <0.05 0.013 | . . | <0.10 0.016 | . | 55 x 25 |
| 2 alloy 5056 AA SS-5056 | 5056 | cast | 0.11i | 0.08i | 0.20i | 5.3i | 0.10i | 0.05i | 0.15i | 0.01i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| 2 alloy 5056 AA WA-5056 | 5056 | cast | 0.11i | 0.08i | 0.20i | 4.7i | 0.10i | 0.05i | 0.15i | <0.0050 | 0.01i | 0.05i | . | 64 x 25 |
| 2 alloy 5056 AA WB-5056 | 5056 | cast | 0.11i | 0.08i | 0.20i | 5.8i | 0.10i | 0.05i | 0.15i | <0.0050 | 0.01i | 0.05i | . | 64 x 25 |
| 2 alloy 5056 AA WC-5056 | 5056 | cast | 0.20i | 0.01i | 0.40 | 5.3i | 0.05i | 0.02i | 0.25 | <0.0050 | 0.01i | 0.02i | . | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 5058 | 5058 | | <0.10 | <0.10 | <0.50 | 4.50-5.60 | <0.20 | <0.05 | <0.40 | <0.20 | . | <0.20 | . | |
| alloy 5059 | 5059 | | <0.25 | <0.25 | <0.50 | 5.00-6.00 | 0.60-1.20 | <0.05 | <0.45 | <0.20 | . | 0.40-0.90 | 0.05-0.25 | |
| 2 alloy 5082 AA SS-5082 | 5082 | cast | <0.15 0.04i | <0.15 0.04i | <0.35 0.25 | 4.00-5.00 4.5i | <0.15 0.04i | <0.05 0.01i | <0.20 0.12i | <0.10 0.02i | 0.01i | <0.25 0.04i | <0.0030 | 64 x 25 |
| 1 alloy 5083 511X G5083A | 5083 | wrought | 0.05-0.25 0.237 | <0.10 0.042 | <0.40 0.363 | 4.00-4.90 3.98 | 0.40-1.00 0.592 | <0.05 0.0094 | <0.40 0.22 | <0.15 0.0294 | . 0.0092 | <0.25 0.0488 | 0.0011 | ~50 x ~20 |
| 2 alloy 5083 AA SS-5083 | 5083 | cast | 0.10i | 0.05i | 0.20i | 4.5i | 0.80 | 0.01i | 0.15i | 0.05i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| 1 alloy 5083 AL AS50/01 | 5083 | cast | 0.100 | 0.084 | 0.347 | 4.50 | 0.85 | 0.030 | 0.220 | 0.040 | 0.026 | 0.101 | . | 60 x 25 |
| 1 alloy 5083 ERM-EB307a | 5083 | cast | 0.1536 | 0.0939 | 0.345 | 4.80 | 0.811 | 0.0097 | 0.152 | 0.0595 | 0.0119 | 0.0690 | 0.00319 | 65 x 30 |
| 1 alloy 5083 V 2505-2 | 5083 | cast | 0.095 | 0.034 | 0.31 | 4.67 | 0.69 | 0.0031 | 0.31 | 0.020 | . | 0.012 | 0.0010 | 60 x 20 |
| 2 alloy 5086 AA SS-5086 | 5086 | cast | 0.05-0.25 0.12i | <0.10 0.05i | <0.50 0.25 | 3.50-4.50 4.0i | 0.20-0.70 0.50 | <0.05 0.03i | <0.40 0.15i | <0.15 0.03i | 0.01i | <0.25 0.05i | <0.0030 | 64 x 25 |
| 1 alloy 5087 AL 547/01 | 5087 | cast | 0.05-0.25 0.16 | <0.05 0.104 | <0.40 0.41 | 4.50-5.20 4.58 | 0.70-1.10 0.70 | <0.05 (0.010) | <0.25 0.155 | <0.15 0.10 | . 0.012 | <0.25 0.065 | 0.006 | 60 x 25 |
| 2 alloy 5091 ALC-5100-BS | 5100 | wrought | C: 1.00-1.30, O: 0.20-0.70 0.031 | <0.02 0.06 | <0.30 3.9 | 3.70-4.20 0.026 | <0.02 0.041 | <0.02 0.046 | <0.20 0.20 | <0.02 0.038 | . 0.013 | <0.02 0.040 | . | 57 x 25 |
| 1 alloy 5119 AL 533/03 | 5119 | Cr+Mn: 0.20-0.60 cast | <0.30 0.102 | <0.05 0.0544 | <0.40 0.216 | 4.50-5.60 5.03 | 0.20-0.60 0.102 | <0.05 0.0117 | <0.25 0.319 | <0.15 0.0188 | . 0.0062 | <0.20 0.0311 | 0.0055 | 60 x 25 |
| alloy 5149 | 5149 | | <0.30 | <0.05 | <0.40 | 1.60-2.50 | 0.50-1.10 | <0.05 | <0.25 | <0.15 | . | <0.20 | . | |
| alloy 5150 | 5150 | | <0.03 | <0.10 | <0.10 | 1.30-1.70 | <0.03 | <0.03 | <0.08 | <0.06 | . | <0.10 | . | |
| alloy 5151 | 5151 | | <0.10 | <0.15 | <0.35 | 1.50-2.10 | <0.10 | <0.05 | <0.20 | <0.10 | . | <0.15 | . | |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|---------|---------|----------|----------|---------|----------|---------|---------|--------|----------|-----------|-----------|---------|-----------|---------|---------|---------|---------|
| alloy 5043 | . | . | . | . | . | . | . | . | <0.05 | . | . | . | . | . | . | . | . | . |
| alloy 5049 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 552/02 | . | . | . | 0.0010 | . | (0.0009) | 0.0022 | . | . | . | 0.00045 | 0.0016 | . | 0.0038 | . | . | 0.0187 | . |
| alloy 5050 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5050 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 5051 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5052 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5052 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA ST2-5052 | . | . | <0.0010 | 0.0002 | 0.02i | 0.002i | 0.0005 | 0.0005 | 0.025 | . | 0.001i | 0.0015 | 0.0005 | 0.02i | 0.003i | . | 0.02i | 0.0012 |
| AA WA-5052 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA WB-5052 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-P57S-AA | . | . | . | . | 0.040 | 0.0029 | . | . | 0.014 | . | 0.0018 | 0.0013 | . | 0.037 | . | . | 0.040 | . |
| alloy 5056 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AJ 019 | . | . | . | 0.0030 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5056 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA WA-5056 | . | . | . | 0.0001 | . | . | . | . | 0.02i | . | . | . | . | . | . | . | . | . |
| AA WB-5056 | . | . | . | 0.003i | . | . | . | . | 0.02i | . | . | . | . | . | . | . | . | . |
| AA WC-5056 | . | . | . | 0.008i | . | . | . | . | 0.02i | . | . | . | . | 0.08i | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 5058 | . | . | . | . | . | . | . | . | . | . | . | . | . | 1.20-1.80 | . | . | . | . |
| alloy 5059 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5082 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5082 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 5083 | . | . | . | . | 0.0016 | . | . | . | . | . | . | . | . | 0.0069 | . | . | 0.0015 | . |
| 511X G5083A | . | . | . | . | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA SS-5083 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | 0.0050 | 0.0173 | 0.0006 | 0.0011 | 0.009 | . | 0.0006 | 0.0011 | . | 0.009 | . | . | 0.0075 | . |
| AL AS50/01 | . | . | . | 0.000537 | . | 0.00192 | 0.00326 | 0.00051 | 0.0124 | (0.0034) | 0.00081 | (0.00084) | . | 0.0084 | 0.0046 | . | 0.0075 | . |
| ERM-EB307a | . | . | . | 0.0012 | 0.0073 | 0.0017 | . | <0.001 | 0.011 | . | 0.0015 | 0.0016 | . | 0.031 | . | . | . | . |
| V 2505-2 | . | . | <0.001 | 0.0012 | 0.0073 | 0.0017 | . | <0.001 | 0.011 | . | 0.0015 | 0.0016 | . | 0.031 | . | . | . | . |
| alloy 5086 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5086 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 5087 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 547/01 | . | . | . | 0.0011 | (0.004) | 0.0006i | 0.005 | . | 0.013 | . | 0.0004i | 0.0020i | . | 0.006 | . | . | 0.006 | . |
| alloy 5091 | . | . | . | . | . | . | . | . | . | . | 1.20-1.40 | . | . | . | . | . | . | . |
| ALC-5100-BS | . | . | . | . | 0.040 | (0.0033) | . | . | 0.032 | . | (0.0006) | (0.0006) | (0.002) | 0.035 | . | . | 0.043 | . |
| alloy 5119 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 533/03 | . | . | (0.0007) | 0.0041 | 0.0009 | 0.0021i | 0.0015 | . | . | . | 0.00022 | 0.0033i | . | 0.0022 | . | . | 0.0011 | 0.0010 |
| alloy 5149 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5150 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5151 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---------------|-------|-------------|-----------|-----------|--------|-----------|-----------|---------|--------|-----------|---------|-----------|-----------|---------------|
| alloy 5154 | 5154 | | 0.15-0.35 | <0.10 | <0.40 | 3.10-3.90 | <0.10 | <0.05 | <0.25 | <0.20 | . | <0.20 | . | |
| 2 AA SS-5154 | 5154 | cast | 0.25 | 0.05i | 0.25 | 3.6i | 0.03i | 0.03i | 0.15i | 0.08i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| 3 AJ 018 | 5154 | cast | 0.236 | 0.019 | 0.198 | 3.36 | 0.054 | 0.046 | 0.194 | 0.035 | . | 0.058 | . | 55 x 25 |
| alloy 5180 | 5180 | Fe+Si <0.35 | <0.10 | <0.10 | <0.05 | 3.50-4.50 | 0.20-0.70 | <0.05 | <0.05 | 0.06-0.20 | . | 1.70-2.80 | 0.08-0.25 | |
| alloy 5182 | 5182 | | <0.10 | <0.15 | <0.35 | 4.00-5.00 | 0.20-0.50 | <0.05 | <0.20 | <0.10 | . | <0.25 | . | |
| 2 AA SS-5182 | 5182 | cast | 0.03i | 0.05i | 0.20i | 4.6i | 0.35 | 0.02i | 0.15i | 0.03i | 0.01i | 0.05i | <0.0030 | 64x25 or 25x6 |
| 2 AA WA-5182 | 5182 | cast | 0.05i | 0.01i | 0.30 | 4.8i | 0.30 | 0.01i | 0.20i | 0.04i | 0.01i | 0.02i | . | 64 x 25 |
| 2 AA WB-5182 | 5182 | cast | 0.01i | 0.07i | 0.10i | 4.4i | 0.45 | 0.04i | 0.08i | 0.01i | 0.01i | 0.10i | . | 64 x 25 |
| 2 ALC-5182-AX | 5182 | wrought | 0.031 | 0.039 | 0.26 | 5.01 | 0.35 | 0.016 | 0.12 | 0.049 | 0.020 | 0.046 | 0.0030 | 57 x 25 |
| 2 ALC-5182-BE | 5182 | wrought | 0.030 | 0.058 | 0.26 | 5.06 | 0.35 | 0.020 | 0.13 | 0.052 | 0.022 | 0.050 | 0.0022 | 57 x 25 |
| 1 SRM 1241c | 5182 | | 0.0343 | 0.0497 | 0.1997 | 4.498 | 0.3792 | 0.0198 | 0.1601 | 0.0334 | 0.0174 | 0.0506 | (0.002) | 63 x 19 |
| alloy 5183 | 5183 | | 0.05-0.25 | <0.10 | <0.40 | 4.30-5.20 | 0.50-1.00 | <0.05 | <0.40 | <0.15 | . | <0.25 | . | |
| alloy 5186 | 5186 | | <0.15 | <0.25 | <0.45 | 3.80-4.80 | 0.20-0.50 | <0.05 | <0.40 | <0.15 | . | <0.40 | <0.05 | |
| 1 AL 537/02 | 5186 | cast | 0.0104 | 0.0189 | 0.330 | 4.76 | 0.450 | 0.0066 | 0.224 | 0.0036 | 0.0102 | 0.0154 | 0.0041 | 60 x 25 |
| alloy 5205 | 5205 | | <0.10 | 0.03-0.10 | <0.70 | 0.60-1.00 | <0.10 | <0.05 | <0.15 | <0.05 | . | <0.05 | . | |
| alloy 5210 | 5210 | | <0.01 | <0.01 | <0.04 | 0.35-0.60 | <0.03 | <0.01 | <0.06 | <0.01 | . | <0.04 | . | |
| 3 V 1104 | 5210 | cast | <0.001 | 0.0042 | 0.0033 | 0.36 | 0.0004 | <0.0005 | 0.0073 | <0.0002 | . | 0.0048 | . | 60 x 20 |
| alloy 5249 | 5249 | | <0.30 | <0.05 | <0.40 | 1.60-2.50 | 0.50-1.10 | <0.05 | <0.25 | <0.15 | . | <0.20 | 0.10-0.20 | |
| alloy 5250 | 5250 | | <0.03 | <0.10 | <0.10 | 1.30-1.80 | 0.04-0.15 | <0.03 | <0.08 | <0.03 | <0.05 | <0.05 | . | |
| alloy 5251 | 5251 | | <0.15 | <0.15 | <0.50 | 1.70-2.40 | 0.10-0.50 | <0.05 | <0.40 | <0.15 | . | <0.15 | . | |
| 2 ALC-5251-AD | 5251 | wrought | 0.031 | 0.089 | 0.33 | 2.30 | 0.33 | 0.020 | 0.21 | 0.030 | 0.021 | 0.047 | 0.0031 | 57 x 25 |
| 1 PY 6036 | 5251 | cast | 0.1248 | 0.0065 | 0.276 | 2.07 | 0.383 | 0.0487 | 0.102 | 0.0527 | . | 0.0936 | 0.0504 | 55 x 30 |
| alloy 5252 | 5252 | | <0.03 | <0.10 | <0.10 | 2.20-2.80 | <0.10 | <0.03 | <0.08 | <0.03 | <0.05 | <0.05 | . | |
| 2 AA SS-5252 | 5252 | cast | <0.0050 | 0.04i | 0.05i | 2.5i | 0.01i | <0.0050 | 0.03i | 0.02i | <0.0050 | 0.01i | <0.0030 | 64 x 25 |
| 1 AL 514/02 | 5252 | cast | 0.0055 | 0.0110 | 0.0629 | 2.42 | 0.0305 | 0.0062 | 0.0660 | 0.0241 | 0.0100 | 0.0219 | 0.0050 | 60 x 25 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|-------|--------------|-----------|-----------|--------|-----------|-----------|---------|--------|-----------|-------|-----------|-----------|-------------|
| alloy 5254 | 5254 | Fe+Si <0.45 | 0.15-0.35 | <0.05 | <0.40 | 3.10-3.90 | <0.01 | <0.05 | <0.25 | <0.05 | . | <0.20 | . | |
| alloy 5257 | 5257 | | <0.02 | <0.10 | <0.10 | 0.20-0.60 | <0.03 | <0.02 | <0.08 | <0.02 | . | <0.03 | . | |
| alloy 5280 | 5280 | | 0.05-0.25 | <0.10 | <0.05 | 3.50-4.50 | 0.20-0.70 | <0.05 | <0.05 | <0.05 | . | 1.50-2.80 | 0.05-0.25 | |
| alloy 5283 | 5283 | | <0.05 | <0.03 | <0.30 | 4.50-5.10 | 0.50-1.00 | <0.03 | <0.30 | <0.03 | . | <0.10 | <0.05 | |
| 2 511X G05H 4F | 5283 | cast | 0.029 | 0.056 | 0.14 | 5.1 | 0.55 | 0.040 | 0.11 | 0.048 | . | 0.062 | . | 40 x 15 |
| alloy 5305 | 5305 | | <0.02 | <0.02 | <0.08 | 0.70-1.10 | <0.03 | <0.02 | <0.08 | <0.02 | . | <0.05 | . | |
| 1 BAM 310 | 5305 | cast | 0.0009 | 0.00169 | 0.0705 | 0.994 | 0.00307 | 0.00244 | 0.0797 | 0.00301 | . | 0.0086 | . | 60 x 25 |
| alloy 5310 | 5310 | Fe+Ti <0.008 | <0.003 | <0.003 | <0.008 | 0.35-0.60 | <0.003 | <0.003 | <0.01 | <0.008 | . | <0.01 | . | |
| 3 V 1109 | 5310 | cast | <0.001 | 0.0001 | 0.0012 | 0.47 | 0.0001 | <0.0005 | 0.0062 | <0.0002 | . | 0.0019 | . | 60 x 20 |
| alloy 5349 | 5349 | | <0.05 | 0.18-0.28 | <0.70 | 1.70-2.60 | 0.60-1.20 | <0.05 | <0.40 | <0.09 | . | <0.05 | . | |
| alloy 5351 | 5351 | | <0.03 | <0.10 | <0.10 | 1.60-2.20 | <0.10 | <0.03 | <0.08 | <0.03 | <0.05 | <0.05 | . | |
| alloy 5352 | 5352 | Fe+Si <0.45 | <0.10 | <0.10 | <0.05 | 2.20-2.80 | <0.10 | <0.05 | <0.05 | <0.10 | . | <0.10 | . | |
| alloy 5354 | 5354 | | 0.05-0.20 | <0.05 | <0.40 | 2.40-3.00 | 0.50-1.00 | <0.05 | <0.25 | <0.15 | . | <0.25 | 0.10-0.20 | |
| alloy 5356 | 5356 | | 0.05-0.20 | <0.10 | <0.40 | 4.50-5.50 | 0.05-0.20 | <0.05 | <0.25 | 0.06-0.20 | . | <0.10 | . | |
| alloy 5357 | 5357 | | <0.05 | <0.20 | <0.17 | 0.80-1.20 | 0.15-0.45 | <0.05 | <0.12 | <0.05 | . | <0.05 | . | |
| 2 AA SS-5357 | 5357 | cast | 0.01i | 0.08i | 0.08i | 1.1i | 0.25 | 0.01i | 0.05i | 0.01i | 0.01i | 0.02i | <0.0030 | 64 x 25 |
| alloy 5383 | 5383 | | <0.25 | <0.20 | <0.25 | 4.00-5.20 | 0.70-1.00 | <0.05 | <0.25 | <0.15 | . | <0.40 | <0.20 | |
| 1 AL 542/01 | 5383 | cast | 0.146 | 0.045 | 0.29 | 4.08 | 0.81 | . | 0.20 | 0.0115 | 0.01 | 0.054 | . | 60 x 25 |
| alloy 5449 | 5449 | | <0.30 | <0.30 | <0.70 | 1.60-2.60 | 0.60-1.10 | <0.05 | <0.40 | <0.10 | . | <0.30 | . | |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|---------|---------|---------|---------|---------|---------|-----------|---------|--------|---------|---------|---------|----------|-----------|---------|---------|----------|----------|
| alloy 5154 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5154 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AJ 018 | . | . | . | 0.0023 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5180 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5182 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5182 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | 0.001i | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA WA-5182 | . | . | . | 0.0011 | . | . | 0.0031 | . | 0.021 | . | . | . | . | 0.021 | . | . | . | . |
| AA WB-5182 | . | . | . | 0.001i | . | . | 0.001i | . | 0.02i | . | . | . | . | 0.006i | . | . | . | . |
| ALC-5182-AX | . | . | . | 0.0013 | 0.0089 | 0.0029i | 0.0013 | . | 0.023 | . | 0.0019 | 0.0046i | (0.0014) | 0.0077 | 0.0028 | 0.014 | . | 0.0030i |
| ALC-5182-BE | . | . | . | 0.0012 | 0.0068 | 0.0031 | 0.0011 | . | 0.021 | . | 0.0027i | 0.0013i | 0.0017 | 0.0074 | 0.0012 | . | 0.019 | 0.0026 |
| SRM 1241c | . | . | . | . | . | . | (0.00062) | . | 0.0184 | . | . | . | . | (0.00052) | . | . | (0.0002) | (0.0002) |
| alloy 5183 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5186 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 537/02 | . | . | . | 0.0005 | 0.0012 | 0.0023 | 0.0011 | . | 0.0298 | . | 0.00041 | 0.0023 | . | 0.0023 | . | . | 0.0015 | 0.0007 |
| alloy 5205 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5210 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 1104 | . | . | . | <0.0001 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5249 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5250 | . | . | . | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| alloy 5251 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-5251-AD | . | . | . | 0.0013 | 0.015i | 0.0031i | 0.0015 | . | 0.021 | . | 0.0026i | 0.0026i | 0.001 | 0.015 | 0.0016 | . | 0.016 | 0.0022i |
| PY 6036 | . | . | . | 0.00096 | . | . | . | . | . | . | . | 0.00034 | . | 0.0195 | . | . | 0.0023 | . |
| alloy 5252 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5252 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL 514/02 | . | <0.0001 | . | 0.0020 | 0.0019 | . | 0.0020 | . | 0.0081 | . | . | 0.0014 | . | 0.0035 | 0.0030 | . | 0.0032 | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 5254 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5257 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5280 | . | . | . | <0.0008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5283 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 511X G05H 4F | . | . | . | 0.014 | . | . | . | . | . | . | . | . | . | 0.15 | . | . | 0.14 | . |
| alloy 5305 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| BAM 310 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5310 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 1109 | . | . | . | <0.0001 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5349 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5351 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5352 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5354 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5356 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 5357 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-5357 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 5383 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 542/01 | . | . | . | . | . | 0.0066i | . | . | . | . | 0.0014 | 0.0033i | . | 0.009 | . | . | 0.011 | . |
| alloy 5449 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|--------|------------------|-----------|--------|--------|-----------|-----------|---------|--------|-----------|--------|---------|---------|-------------|
| alloy 5451 | 5451 | | 0.15-0.35 | <0.10 | <0.40 | 1.80-2.40 | <0.10 | <0.05 | <0.25 | <0.05 | . | <0.10 | . | |
| 2 AA ST1-5000 | 5451 | cast | 0.15i | 0.05i | 0.30 | 1.8i | 0.05i | 0.03i | 0.15 | 0.02i | 0.01i | 0.04i | 0.001i | 64 x 25 |
| alloy 5454 | 5454 | | 0.05-0.20 | <0.10 | <0.40 | 2.40-3.00 | 0.50-1.00 | <0.05 | <0.25 | <0.20 | . | <0.25 | . | |
| 2 AA SS-5454 | 5454 | cast | 0.10i | 0.07i | 0.20i | 2.8i | 0.80 | 0.01i | 0.15i | 0.04i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| 2 AA WA-5454 | 5454 | cast | 0.55i | 0.02i | 0.10i | 2.5i | 0.50 | 0.03i | 0.08i | 0.02i | 0.01i | 0.15i | . | 64 x 25 |
| 2 ALC-5454-AC | 5454 | wrought | 0.030 | 0.10 | 0.40 | 3.16 | 0.75 | 0.033 | 0.25 | 0.064 | 0.020 | 0.030 | 0.0029 | 57 x 25 |
| alloy 5456 | 5456 | | 0.05-0.20 | <0.10 | <0.40 | 4.70-5.50 | 0.50-1.00 | <0.05 | <0.25 | <0.20 | . | <0.25 | . | |
| 2 AA SS-5456 | 5456 | cast | 0.10i | 0.06i | 0.20i | 5.2i | 0.80 | 0.01i | 0.15i | 0.03i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| 2 AA WA-5456 | 5456 | cast | 0.15i | 0.10i | 0.25 | 5.5i | 0.50 | 0.01i | 0.10i | 0.05i | 0.01i | 0.25 | . | 64 x 25 |
| 1 AL 545/02 | 5456 | cast | 0.153 | 0.029 | 0.296 | 5.49 | 0.802 | 0.0100 | 0.142 | 0.105 | . | 0.0216 | . | 60 x 25 |
| alloy 5457 | 5457 | | <0.03 | <0.20 | <0.10 | 0.80-1.20 | 0.15-0.45 | <0.03 | <0.08 | <0.03 | . | <0.05 | . | |
| 2 ALC-5457-AB | 5457 | wrought | 0.026 | 0.16 | 0.12 | 0.99 | 0.42 | 0.027 | 0.100i | 0.028i | 0.022 | 0.030i | 0.0030 | 57 x 25 |
| alloy 5505 | 5505 | | <0.01 | <0.01 | <0.04 | 0.80-1.10 | <0.03 | <0.01 | <0.06 | <0.01 | . | <0.04 | . | |
| alloy 5552 | 5552 | | <0.03 | <0.10 | <0.05 | 2.20-2.80 | <0.10 | <0.03 | <0.04 | <0.03 | <0.05 | <0.05 | . | |
| alloy 5554 | 5554 | | 0.05-0.20 | <0.10 | <0.40 | 2.40-3.00 | 0.50-1.00 | <0.05 | <0.25 | 0.05-0.20 | . | <0.25 | . | |
| alloy 5556 | 5556 | | 0.05-0.20 | <0.10 | <0.40 | 4.70-5.50 | 0.50-1.00 | <0.05 | <0.25 | 0.05-0.20 | . | <0.25 | . | |
| alloy 5557 | 5557 | | <0.03 | <0.15 | <0.12 | 0.40-0.80 | 0.10-0.40 | <0.03 | <0.10 | <0.03 | <0.05 | <0.03 | . | |
| alloy 5605 | 5605 | Fe+Ti <0.008 | <0.003 | <0.003 | <0.008 | 0.80-1.10 | <0.003 | <0.003 | <0.01 | <0.008 | . | <0.01 | . | |
| alloy 5652 | 5652 | | 0.15-0.35 | <0.04 | <0.05 | 2.20-2.80 | <0.01 | <0.05 | <0.05 | <0.05 | . | <0.10 | . | |
| alloy 5654 | 5654 | Fe+Si <0.45 | 0.15-0.35 | <0.05 | <0.05 | 3.10-3.90 | <0.01 | <0.05 | <0.05 | 0.05-0.15 | . | <0.20 | . | |
| alloy 5657 | 5657 | | <0.02 | <0.10 | <0.10 | 0.60-1.00 | <0.03 | <0.02 | <0.08 | <0.02 | . | <0.05 | . | |
| 2 AA SS-5657 | 5657 | cast | 0.01i | 0.04i | 0.06i | 0.80 | 0.02i | 0.01i | 0.04i | 0.01i | 0.01i | 0.02i | <0.0030 | 64 x 25 |
| 2 ALC-5657-AA | 5657 | wrought | 0.020 | 0.050 | 0.077 | 0.740 | 0.030 | 0.020 | 0.052 | 0.022 | 0.027 | 0.029 | . | 57 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 5754 | 5754 | Cr+Mn: 0.10-0.60 | <0.30 | <0.10 | <0.40 | 2.60-3.60 | <0.50 | <0.05 | <0.40 | <0.15 | . | <0.20 | . | |
| 1 AL 525/04 | 5754 | cast | 0.327 | 0.066 | 0.313 | 2.87 | 0.285 | 0.028 | 0.220 | 0.029 | 0.018 | 0.035 | 0.0058 | 60 x 25 |
| 1 V 2300-1 | 5754 | cast, In | 0.20 | 0.069 | 0.39 | 2.10 | 0.38 | 0.0036 | 0.49 | 0.0069 | 0.0024 | 0.20 | 0.0033 | 60 x 20 |
| 1 V 2301-1 | 5754 | cast, In | 0.043 | 0.11 | 0.21 | 3.24 | 0.11 | 0.0021 | 0.20 | 0.038 | 0.0032 | 0.13 | 0.0037 | 60 x 20 |
| 1 V 2302-1 | 5754 | cast | 0.10 | 0.088 | 0.24 | 2.78 | 0.22 | 0.0009 | 0.29 | 0.033 | 0.0029 | 0.22 | 0.0059 | 60 x 20 |
| 2 ALC-X5754-AE | 5754 M | wrought | 0.051 | 0.057 | 0.35 | 3.18 | 0.45 | 0.031 | 0.38 | 0.053 | 0.021 | 0.056 | 0.0024 | 57 x 25 |
| alloy 5854 | 5854 | Fe+Si <0.45 | 0.15-0.35 | <0.10 | <0.05 | 3.10-3.90 | 0.10-0.50 | <0.05 | <0.05 | <0.20 | . | <0.20 | . | |
| alloy 5954 | 5954 | | <0.10 | <0.10 | <0.40 | 3.30-4.10 | <0.10 | <0.05 | <0.25 | <0.20 | . | <0.20 | . | |
| 2 AA WA-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.45 | 0.03i | 0.03i | 0.60 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WB-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.60 | 0.03i | 0.03i | 0.60 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WC-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.75 | 0.03i | 0.03i | 0.60 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WD-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.95 | 0.03i | 0.03i | 0.60 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WF-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 1.2i | 0.03i | 0.03i | 0.60 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WG-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 1.4i | 0.03i | 0.03i | 0.60 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WH-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.90 | 0.03i | 0.03i | 0.25 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WJ-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.90 | 0.03i | 0.03i | 0.35 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WK-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.90 | 0.03i | 0.03i | 0.50 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WL-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.90 | 0.03i | 0.03i | 0.70 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WM-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.90 | 0.03i | 0.03i | 0.90 | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WP-6000 | 6000 | cast | 0.03i | 0.10i | 0.30 | 0.90 | 0.03i | 0.03i | 1.3i | 0.03i | . | 0.03i | . | 64 x 25 |
| 2 AA WR-6000 | 6000 | cast | 0.01i | 0.02i | 0.25 | 0.90 | 0.08i | 0.05i | 0.60 | 0.03i | . | 0.08i | . | 64 x 25 |
| 2 AA WS-6000 | 6000 | cast | 0.03i | 0.05i | 0.35 | 0.90 | 0.02i | 0.01i | 0.60 | 0.03i | . | 0.04i | . | 64 x 25 |
| 2 AA WT-6000 | 6000 | cast | 0.08i | 0.10i | 0.15i | 0.90 | 0.04i | 0.03i | 0.60 | 0.01i | . | 0.02i | . | 64 x 25 |
| 2 AA WU-6000 | 6000 | cast | 0.35 | 0.18i | 0.65 | 0.90 | 0.04i | 0.03i | 0.60 | 0.02i | . | 0.15i | . | 64 x 25 |
| 2 AA WV-6000 | 6000 | cast | 0.15i | 0.30 | 0.80 | 0.90 | 0.15i | 0.01i | 0.60 | 0.10i | . | 0.08i | . | 64 x 25 |
| 2 AA WW-6000 | 6000 | cast | 0.25 | 0.45 | 0.50 | 0.90 | 0.08i | 0.05i | 0.60 | 0.05i | . | 0.04i | . | 64 x 25 |
| 2 AA WX-6000 | 6000 | cast | 0.32 | 0.03i | 0.20i | 0.65 | 0.02i | 0.01i | 0.42 | 0.01i | . | 0.02i | . | 64 x 25 |
| 2 AA WZ-6000 | 6000 | cast | <0.0050 | 0.03i | 0.15i | 0.70 | 0.01i | <0.0050 | 0.40 | <0.0050 | 0.005i | <0.0050 | . | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|-------|---------|-----------|-----------|-----------|-----------|-----------|----------|-----------|---------|-----------|-----------|-----------|---------------|
| alloy 6002 | 6002 | | <0.05 | 0.10-0.25 | <0.25 | 0.45-0.70 | 0.10-0.20 | <0.05 | 0.60-0.90 | <0.08 | . | <0.05 | 0.09-0.14 | |
| alloy 6003 | 6003 | | <0.35 | <0.10 | <0.60 | 0.80-1.50 | <0.80 | <0.05 | 0.35-1.00 | <0.10 | . | <0.20 | . | |
| alloy 6004 | 6004 | | <0.05 | <0.10 | 0.10-0.30 | 0.40-0.70 | 0.20-0.60 | <0.05 | 0.30-0.60 | <0.05 | . | <0.05 | . | |
| alloy 6005 | 6005 | | <0.10 | <0.10 | <0.35 | 0.40-0.60 | <0.10 | <0.05 | 0.60-0.90 | <0.10 | . | <0.10 | . | |
| 2 ALC-A6005-AG | 6005 | wrought | 0.028 | 0.135 | 0.24 | 0.62 | 0.25 | 0.030 | 0.88 | 0.030 | 0.021 | 0.031 | 0.0033 | 57 x 25 |
| 1 V 2010-2 | 6005 | cast | 0.0504 | 0.1014 | 0.218 | 0.493 | 0.1116 | 0.01286 | 0.747 | 0.0919 | 0.01631 | 0.0757 | 0.0382 | 60 x 20 |
| alloy 6006 | 6006 | | <0.10 | 0.15-0.30 | <0.35 | 0.45-0.90 | 0.05-0.20 | <0.05 | 0.20-0.60 | <0.10 | . | <0.10 | . | |
| 2 ALC-6006-CAD | 6006 | wrought | (0.08) | (0.14) | (0.18) | (0.69) | (0.15) | <0.0001 | (0.69) | 0.0001 | <0.0001 | 0.0001 | <0.0001 | 57 x 25 |
| alloy 6007 | 6007 | | 0.05-0.25 | <0.20 | <0.70 | 0.60-0.90 | 0.05-0.25 | <0.05 | 0.90-1.40 | <0.15 | . | <0.25 | 0.05-0.20 | |
| alloy 6008 | 6008 | | <0.30 | <0.30 | <0.35 | 0.40-0.70 | <0.30 | <0.05 | 0.50-0.90 | <0.10 | 0.05-0.20 | <0.20 | . | |
| 1 AL 661/02 | 6008 | cast | 0.052 | 0.057 | 0.306 | 0.717 | 0.050 | 0.0032 | 0.619 | 0.051 | 0.080 | 0.113 | 0.0012 | 60 x 25 |
| 2 ALC-6008-AA | 6008 | wrought | 0.015 | 0.30 | 0.21 | 0.60 | 0.067 | 0.030 | 0.67 | 0.030 | 0.10 | 0.019 | 0.0030 | 57 x 25 |
| alloy 6009 | 6009 | | <0.10 | 0.15-0.60 | <0.50 | 0.40-0.80 | 0.20-0.80 | <0.05 | 0.60-1.00 | <0.10 | . | <0.25 | . | |
| alloy 6010 | 6010 | | <0.10 | 0.15-0.60 | <0.50 | 0.60-1.00 | 0.20-0.80 | <0.05 | 0.80-1.20 | <0.10 | . | <0.25 | . | |
| 2 AA SS-6010 | 6010 | cast | 0.04i | 0.32 | 0.25 | 0.80 | 0.32 | 0.03i | 1.0i | 0.03i | 0.01i | 0.12i | <0.0030 | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 6011 | 6011 | | <0.30 | 0.40-0.90 | <1.00 | 0.60-1.20 | <0.80 | <0.20 | 0.60-1.20 | <0.20 | . | <1.50 | . | |
| 1 PY 849 | 6011 | cast | 0.1308 | 0.753 | 0.613 | 0.629 | 0.0504 | 0.0060 | 0.613 | 0.0043 | 0.0122 | 0.2497 | 0.1164 | 55 x 30 |
| 1 SRM 1258i | 6011 | | (0.0011) | 0.848 | 0.080 | 1.00 | 0.481 | (0.0006) | 0.80 | (0.040) | . | 1.03 | . | 35 x 19 |
| alloy 6012 | 6012 | | <0.30 | <0.10 | <0.50 | 0.60-1.20 | 0.40-1.00 | <0.05 | 0.60-1.40 | <0.20 | . | <0.30 | . | |
| 1 511X G6012 | 6012 | cast | 0.269 | 0.114 | 0.285 | 1.10 | 0.910 | 0.0154 | 1.35 | 0.016 | . | 0.255 | 0.032 | 50 x ~17 |
| 1 511X G6012A | 6012M | cast | 0.0223 | 0.351 | 0.71 | 0.712 | 0.424 | 0.048 | 0.768 | 0.197 | . | 0.060 | 0.0480 | 50 x ~17 |
| 2 ALC-6012-AF | 6012 | wrought | 0.047 | 6.05 | 0.21 | 0.020 | 0.28 | 0.045 | 0.13 | 0.14 | 0.010 | 0.049 | . | 57 x 25 |
| alloy 6013 | 6013 | | <0.10 | 0.60-1.10 | <0.50 | 0.80-1.20 | 0.20-0.80 | <0.05 | 0.60-1.00 | <0.10 | . | <0.25 | . | |
| alloy 6014 | 6014 | | <0.20 | <0.25 | <0.35 | 0.40-0.80 | 0.05-0.20 | <0.05 | 0.30-0.60 | <0.10 | 0.05-0.20 | <0.10 | . | |
| alloy 6015 | 6015 | | <0.10 | 0.10-0.25 | 0.10-0.30 | 0.80-1.10 | <0.10 | <0.05 | 0.20-0.40 | <0.10 | . | <0.10 | . | |
| alloy 6016 | 6016 | | <0.10 | <0.20 | <0.50 | 0.25-0.60 | <0.20 | <0.05 | 1.00-1.50 | <0.15 | . | <0.20 | . | |
| alloy 6017 | 6017 | | <0.10 | 0.05-0.20 | 0.15-0.30 | 0.45-0.60 | <0.10 | <0.05 | 0.55-0.70 | <0.05 | . | <0.05 | . | |
| alloy 6018 | 6018 | | <0.10 | 0.15-0.40 | <0.70 | 0.60-1.20 | 0.30-0.80 | <0.05 | 0.50-1.20 | <0.20 | . | <0.30 | . | |
| alloy 6019 | 6019 | | 0.05-0.35 | 0.20-0.60 | <0.50 | 0.80-1.20 | <0.10 | <0.05 | 0.60-1.20 | <0.15 | . | 0.40-1.00 | . | |
| alloy 6020 | 6020 | | <0.15 | 0.30-0.90 | <0.50 | 0.60-1.20 | <0.35 | <0.05 | 0.40-0.90 | <0.15 | . | <0.05 | . | |
| alloy 6021 | 6021 | | <0.25 | <0.10 | <0.40 | 0.80-1.50 | 0.40-1.00 | <0.05 | 0.60-1.50 | <0.10 | . | <0.20 | . | |
| 1 V 2210-1 | 6021 | cast | 0.17 | 0.093 | 0.35 | 0.88 | 0.60 | 0.0037 | 1.07 | 0.10 | 0.0061 | 0.19 | . | 60 x 20 |
| alloy 6022 | 6022 | | <0.10 | 0.01-0.11 | 0.05-0.20 | 0.45-0.70 | 0.02-0.10 | <0.05 | 0.80-1.50 | <0.15 | . | <0.25 | . | |
| 2 AA SS-6022 | 6022 | cast | 0.0298 | 0.070 | 0.126 | 0.60 | 0.073 | <0.0050 | 0.89 | 0.0395 | 0.0109 | 0.100 | . | 64x25 or 25x6 |
| alloy 6030 | 6030 | | 0.04-0.35 | 0.15-0.40 | <0.70 | 0.80-1.20 | <0.15 | <0.05 | 0.40-0.80 | <0.15 | . | <0.25 | . | |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------------------|---------|---------|----------|-------------------|----------------|-------------------|-------------------|---------|-----------------|---------|--------------------|--------------------|---------|------------------|-------------------|---------|------------------|-------------------|
| alloy 6002 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6003 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6004 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-A6005-AG V 2010-2 | . | 0.0012 | <0.0003 | 0.0011 0.00097 | 0.007i | 0.0036 0.00355 | 0.0012 0.00196 | . | 0.020 0.0205 | . | 0.0028i 0.00089 | 0.0025i 0.00107 | 0.004 | 0.008 0.00840 | 0.0024 0.00113 | . | 0.020 0.00822 | 0.0035 0.00206 |
| alloy 6006 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-6006-CAD | . | . | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | . | <0.0001 | <0.0001 | 0.0001 | 0.0001 | <0.0001 | . | 0.0001 | <0.0001 |
| alloy 6007 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 661/02 | . | . | (0.0001) | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-6008-AA | . | . | . | 0.0012 | 0.0080 | 0.0035 | 0.0014 | . | 0.021 | . | 0.0024i | 0.0029i | 0.004 | 0.0025 0.0080 | 0.0032 | . | 0.013 | 0.0031 |
| alloy 6009 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6010 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-6010 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 6011 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| PY 849 | . | . | . | 0.00010 | . | . | . | . | 0.0258 | . | . | . | . | 0.0015 | . | . | 0.0203 | . |
| SRM 1258i | . | . | . | (<0.0001) | . | . | . | . | (0.011) | . | . | . | . | . | . | . | . | . |
| alloy 6012 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.40-2.00 | . | . | . | . |
| 511X G6012 | . | . | . | 0.0072 | <0.70 0.552 | . | . | . | . | . | . | . | . | 1.10 | . | . | 0.040 | . |
| 511X G6012A | . | . | . | 0.0110 | 0.701 | . | . | . | . | . | . | . | . | 0.211 | . | . | 1.88 | . |
| ALC-6012-AF | . | . | . | . | 0.038 | . | . | . | 0.016 | . | . | . | . | 0.037 | . | . | 0.040 | . |
| alloy 6013 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6014 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6016 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6017 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6018 | . | . | . | . | 0.40-0.70 | . | . | . | . | . | . | . | . | 0.40-1.20 | . | . | . | . |
| alloy 6019 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6020 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.05 | . | . | 0.90-1.50 | . |
| alloy 6021 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.60-1.50 | . |
| V 2210-1 | . | . | 0.0003 | . | 0.41 | . | . | . | 0.0059 | . | . | . | . | 0.046 | . | . | 1.21 | . |
| alloy 6022 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-6022 | . | . | . | . | . | . | . | . | 0.0155 | . | . | . | . | . | . | . | . | . |
| alloy 6030 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.05-0.50 | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---------------|-------|-------------|-----------|-----------|-----------|-----------|-----------|---------|-----------|--------|--------|-----------|---------|---------------|
| alloy 6053 | 6053 | | 0.15-0.35 | <0.10 | <0.35 | 1.10-1.40 | <0.05 | <0.05 | 45-65%/Mg | <0.05 | . | <0.10 | . | |
| 2 AA SS-6053 | 6053 | cast | 0.25 | 0.05i | 0.30 | 1.2i | 0.02i | 0.03i | 0.70 | 0.03i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| alloy 6056 | 6056 | Ti+Zr <0.20 | <0.25 | 0.50-1.10 | <0.50 | 0.60-1.20 | 0.40-1.00 | <0.05 | 0.70-1.30 | <0.05 | . | 0.10-0.70 | . | |
| alloy 6060 | 6060 | | <0.05 | <0.10 | 0.10-0.30 | 0.35-0.60 | <0.10 | <0.05 | 0.30-0.60 | <0.10 | . | <0.15 | . | |
| 1 AL 613/08 | 6060 | cast | 0.0050 | 0.0101 | 0.268 | 0.399 | 0.0193 | 0.0044 | 0.413 | 0.0146 | 0.0109 | 0.0087 | 0.0044 | 60 x 25 |
| 3 AJ 025 | 6060 | Ba, cast | 0.0001 | 0.0005 | 0.197 | 0.495 | 0.0005 | 0.0002 | 0.423 | 0.0003 | 0.0002 | 0.0004 | <0.0001 | 55 x 25 |
| 3 AJ 026 | 6060 | Ba, cast | 0.0013 | 0.0021 | 0.300 | 0.582 | 0.0017 | 0.0010 | 0.527 | 0.0005 | 0.0010 | 0.0012 | 0.0008 | 55 x 25 |
| 1 V 2000-1 | 6060 | cast | 0.0015 | 0.0054 | 0.19 | 0.52 | 0.010 | 0.0017 | 0.49 | 0.0098 | 0.0015 | 0.021 | 0.0035 | 60 x 20 |
| 1 V 2002-1 | 6060 | cast | 0.0014 | 0.0074 | 0.19 | 0.44 | 0.011 | 0.0015 | 0.48 | 0.012 | 0.0018 | 0.018 | 0.0025 | 60 x 20 |
| 1 V 2003-1 | 6060 | cast | 0.0020 | 0.0071 | 0.18 | 0.57 | 0.030 | 0.0028 | 0.62 | 0.022 | 0.0020 | 0.030 | 0.0026 | 60 x 20 |
| alloy 6061 | 6061 | | 0.04-0.35 | 0.15-0.40 | <0.70 | 0.80-1.20 | <0.15 | <0.05 | 0.40-0.80 | <0.15 | . | <0.25 | . | |
| 3 AJ 021 | 6061 | cast | 0.203 | 0.313 | 0.708 | 1.10 | 0.122 | 0.0074 | 0.557 | 0.071 | 0.0064 | 0.096 | 0.134 | 55 x 25 |
| 2 AA SS-6061 | 6061 | cast | 0.23 | 0.30 | 0.35 | 1.0i | 0.05i | 0.05i | 0.65 | 0.04i | 0.01i | 0.08i | <0.0030 | 64x25 or 25x6 |
| 2 AA ST1-6000 | 6061 | cast | 0.15i | 0.15i | 0.30 | 0.80 | 0.05i | 0.05i | 0.55 | 0.04i | 0.01i | 0.08i | 0.001i | 64 x 25 |
| 2 AA WA-6061 | 6061 | cast | 0.05i | 0.30 | 0.35 | 1.0i | 0.05i | 0.05i | 0.60 | 0.05i | 0.01i | 0.12i | . | 64 x 25 |
| 2 ALC-6061-AT | 6061 | wrought | 0.24 | 0.35 | 0.32 | 1.04 | 0.099 | 0.030 | 0.74 | 0.040 | 0.020 | 0.040 | 0.0043 | 57 x 25 |
| alloy 6063 | 6063 | | <0.10 | <0.10 | <0.35 | 0.45-0.90 | <0.10 | <0.05 | 0.20-0.60 | <0.10 | . | <0.10 | . | |
| 2 AA SS-6063 | 6063 | cast | 0.02i | 0.06i | 0.25 | 0.65 | 0.02i | 0.02i | 0.48 | 0.03i | 0.01i | 0.05i | <0.0030 | 64x25 or 25x6 |
| 2 AA ST2-6063 | 6063 | cast | 0.015 | 0.05i | 0.22i | 0.05i | 0.05i | 0.03i | 0.45 | 0.03i | 0.03i | 0.03i | 0.004i | 64 x 25 |
| 2 AA WA-6063 | 6063 | cast | . | 0.0105 | 0.164 | 0.482 | 0.0315 | . | 0.45 | 0.0133 | 0.0100 | . | . | 64 x 25 |
| 2 ALC-6063-BE | 6063 | wrought, Mo | 0.019 | 0.088 | 0.21 | 0.55 | 0.088 | 0.025 | 0.44 | 0.030 | 0.022 | 0.029 | 0.0031 | 57 x 25 |
| 3 AJ 024 | 6063 | cast | 0.052 | 0.054 | 0.196 | 0.655 | 0.013 | 0.048 | 0.407 | 0.013 | 0.012 | 0.058 | . | 55 x 25 |
| 1 V 2013-2 | 6063 | cast | 0.0171 | 0.0713 | 0.1937 | 0.498 | 0.0615 | 0.01598 | 0.495 | 0.0235 | 0.0167 | 0.0225 | 0.00200 | 60 x 20 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---------------|-------|--------------|-----------|-----------|-------|-----------|-----------|--------|-----------|--------|-----------|--------|---------|-------------|
| alloy 6066 | 6066 | | <0.40 | 0.70-1.20 | <0.05 | 0.80-1.40 | 0.60-1.10 | <0.05 | 0.90-1.80 | <0.20 | . | <0.25 | . | |
| 2 AA SS-6066 | 6066 | cast | 0.03i | 1.0i | 0.35 | 1.2i | 0.90 | 0.03i | 1.5i | 0.03i | 0.01i | 0.10i | <0.0030 | 64 x 25 |
| 2 ALC-6066-AF | 6066 | wrought | 0.018 | 0.96 | 0.60 | 0.97 | 0.71 | 0.032 | 0.97 | 0.032 | 0.021 | 0.28 | 0.0032 | 57 x 25 |
| alloy 6069 | 6069 | | 0.05-0.30 | 0.55-1.00 | <0.40 | 1.20-1.60 | <0.05 | <0.05 | 0.60-1.20 | <0.10 | 0.10-0.30 | <0.05 | . | |
| alloy 6070 | 6070 | | <0.10 | 0.15-0.40 | <0.50 | 0.50-1.20 | 0.40-1.00 | <0.05 | 1.00-1.70 | <0.15 | . | <0.25 | . | |
| 2 AA SS-6070 | 6070 | cast | 0.06i | 0.30 | 0.25 | 0.80 | 0.70 | 0.02i | 1.3i | 0.05i | 0.01i | 0.15i | <0.0030 | 64 x 25 |
| 3 AJ 023 | 6070 | cast | 0.094 | 0.140 | 0.597 | 0.452 | 0.539 | 0.028 | 2.29 | 0.095 | 0.023 | 0.932 | 0.020 | 55 x 25 |
| 2 ALC-6070-AC | 6070 | wrought | 0.019 | 0.33 | 0.26 | 0.75 | 0.74 | 0.019 | 1.25 | 0.021 | 0.016 | 0.021 | 0.0030 | 57 x 25 |
| alloy 6081 | 6081 | | <0.10 | <0.10 | <0.50 | 0.60-1.00 | 0.10-0.45 | <0.05 | 0.70-1.10 | <0.15 | . | <0.25 | . | |
| alloy 6082 | 6082 | | <0.25 | <0.10 | <0.50 | 0.60-1.20 | 0.40-1.00 | <0.05 | 0.70-1.30 | <0.10 | . | <0.20 | . | |
| 1 511X G6082A | 6082 | wrought | 0.0606 | 0.0184 | 0.081 | 0.759 | 0.534 | 0.0035 | 0.753 | 0.0278 | . | 0.054 | . | ~50 x ~20 |
| 1 511X G6082B | 6082 | wrought | 0.0055 | 0.0141 | 0.180 | 0.660 | 0.566 | 0.0044 | 0.910 | 0.0158 | . | 0.0016 | . | ~50 x ~20 |
| 1 AL 634/02 | 6082 | cast | 0.031 | 0.085 | 0.425 | 0.840 | 0.759 | 0.033 | 1.05 | 0.071 | 0.0152 | 0.032 | 0.0013 | 60 x 25 |
| 1 V 2103-1 | 6082 | cast, In | 0.11 | 0.13 | 0.49 | 0.80 | 0.71 | 0.0029 | 1.37 | 0.052 | 0.0031 | 0.11 | 0.0015 | 60 x 20 |
| 1 V 2109-1 | 6082 | cast | 0.0022 | 0.0066 | 0.17 | 0.55 | 0.78 | 0.0029 | 0.62 | 0.018 | 0.0016 | 0.029 | 0.0012 | 60 x 20 |
| 1 V 2110-2 | 6082 | cast | 0.0097 | 0.069 | 0.235 | 0.616 | 0.521 | 0.0094 | 0.95 | 0.0246 | 0.0069 | 0.0099 | 0.0028 | 60 x 20 |
| alloy 6090 | 6090 | O: 0.05-0.70 | <0.15 | 0.30-0.90 | <0.70 | 0.80-1.20 | <0.15 | <0.05 | 0.40-0.80 | <0.15 | . | <0.25 | . | |
| alloy 6091 | 6091 | O: 0.05-0.50 | <0.15 | 0.15-0.40 | <0.70 | 0.80-1.20 | <0.15 | <0.05 | 0.40-0.80 | <0.15 | . | <0.25 | . | |
| alloy 6092 | 6092 | O: 0.05-0.50 | <0.15 | 0.70-1.00 | <0.30 | 0.80-1.20 | <0.15 | <0.05 | 0.40-0.80 | <0.15 | . | <0.25 | . | |
| alloy 6101 | 6101 | | <0.03 | <0.10 | <0.50 | 0.35-0.80 | <0.03 | <0.03 | 0.30-0.70 | <0.03 | . | <0.10 | . | |
| 1 AL AS60/01 | 6101 | cast | 0.0258 | 0.0330 | 0.253 | 0.794 | 0.0397 | 0.0113 | 0.639 | 0.0216 | 0.0147 | 0.0259 | . | 60 x 25 |
| 2 HRT AL2015 | 6101 | | . | . | 0.19 | 0.36 | 0.003 | 0.004 | 0.45 | 0.011 | 0.017 | 0.005 | . | 35 x 20 |
| alloy 6103 | 6103 | | <0.35 | 0.20-0.30 | <0.60 | 0.80-1.50 | <0.80 | <0.05 | 0.35-1.00 | <0.10 | . | <0.20 | . | |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|-----------|---------|---------|---------|----------|---------|---------|---------|--------|---------|-----------|---------|----------|----------|---------|---------|----------|---------|
| alloy 6053 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-6053 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 6056 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6060 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 613/08 | . | 0.0020 | . | 0.0011 | 0.0036 | 0.0005 | 0.0035 | . | 0.0172 | 0.0015 | 0.0006 | 0.0004 | 0.0012 | 0.0107 | 0.0085 | . | 0.0111 | . |
| AJ 025 | . | . | 0.0001 | <0.0001 | <0.0001 | <0.0001 | . | <0.0001 | 0.0002 | . | <0.0001 | <0.0001 | . | <0.0001 | . | . | <0.0001 | <0.0001 |
| AJ 026 | . | . | 0.0006 | 0.0004 | 0.0009 | 0.0003 | . | 0.0004 | 0.0044 | . | 0.0002 | 0.0005 | . | 0.0013 | . | . | 0.0018 | 0.0004 |
| V 2000-1 | . | . | <0.002 | . | . | <0.0003 | . | <0.002 | . | . | . | . | . | 0.0012 | . | . | <0.004 | . |
| V 2002-1 | . | . | . | . | . | . | . | . | . | . | 0.0006 | 0.0007 | . | . | . | . | . | . |
| V 2003-1 | . | . | <0.001 | . | . | 0.0003 | . | . | 0.011 | . | 0.0005 | 0.0006 | . | 0.0011 | . | . | . | . |
| alloy 6061 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AJ 021 | . | . | . | 0.0020 | . | . | . | . | 0.035 | . | . | . | . | . | . | . | . | . |
| AA SS-6061 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA ST1-6000 | <0.0010 | . | <0.0005 | 0.0005 | 0.001i | . | 0.001i | 0.001i | 0.02i | . | . | . | . | 0.003i | 0.001i | . | 0.001i | 0.001i |
| AA WA-6061 | . | . | . | . | . | . | . | . | 0.02i | . | . | . | . | . | . | . | . | . |
| ALC-6061-AT | <0.0001 | <0.0001 | 0.0002 | 0.0012 | 0.0074 | 0.0030 | 0.0011 | 0.0001 | 0.020 | <0.0001 | 0.0036i | 0.0022i | 0.0024 | 0.0076 | 0.0037 | . | 0.020 | 0.0023 |
| alloy 6063 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-6063 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA ST2-6063 | . | . | <0.0010 | 0.0002 | 0.02i | 0.002i | 0.0005 | 0.0005 | 0.025 | . | 0.001i | 0.0015 | 0.0005 | 0.02i | . | . | 0.02i | 0.0012 |
| AA WA-6063 | . | . | . | . | . | . | . | . | 0.0140 | . | . | . | . | . | . | . | . | . |
| ALC-6063-BE | <0.0001 | <0.0001 | 0.0001 | 0.0013 | 0.0088i | 0.0033i | 0.0012 | 0.0001 | 0.022 | <0.0001 | 0.0033i | 0.0025i | 0.0033 | 0.0096 | 0.0034 | . | 0.022 | 0.0030 |
| AJ 024 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 2013-2 | Al:[98.5] | . | 0.00045 | 0.00104 | 0.00611 | 0.00120 | 0.00110 | 0.00110 | 0.0201 | 0.00087 | . | 0.00069 | 0.0024 | 0.00753 | 0.00300 | . | 0.00992 | 0.00134 |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 6066 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-6066 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-6066-AF | . | . | . | 0.0013 | 0.007 | 0.0028 | 0.0011 | . | 0.021 | . | 0.0034i | 0.0039i | 0.0032 | 0.0075 | 0.0026 | . | 0.014 | 0.0029 |
| alloy 6069 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.05 |
| alloy 6070 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-6070 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AJ 023 | . | . | . | 0.0027 | 0.011 | 0.0019 | 0.0075 | 0.0089 | 0.040 | . | (0.00008) | 0.0014 | (0.0018) | 0.0085 | . | . | 0.019 | 0.0006 |
| ALC-6070-AC | . | . | . | 0.0012 | 0.0063 | 0.0029 | 0.0010 | . | 0.020 | . | 0.0029i | 0.0033i | 0.0036 | 0.008 | 0.0027 | . | 0.0069 | 0.0036 |
| alloy 6081 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6082 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 511X G6082A | . | . | . | . | (0.0008) | . | . | . | . | . | . | . | . | 0.0012 | . | . | 0.0011 | . |
| 511X G6082B | . | . | . | . | (0.0007) | . | . | . | . | . | . | . | . | (0.0009) | . | . | (0.0006) | . |
| AL 634/02 | . | . | . | . | 0.0028 | . | . | . | . | . | . | 0.0014i | 0.0008 | 0.0021 | 0.0004 | . | 0.0009 | . |
| V 2103-1 | . | . | 0.0005 | 0.0051 | 0.0006 | 0.0006 | <0.0002 | <0.0004 | 0.011 | . | <0.0002 | <0.0002 | . | 0.0042 | . | . | . | <0.0002 |
| V 2109-1 | . | . | <0.0002 | <0.0001 | <0.0002 | 0.0003 | 0.0011 | <0.0002 | 0.011 | . | 0.0006 | 0.0008 | . | 0.0007 | <0.0003 | . | <0.0005 | <0.0001 |
| V 2110-2 | . | . | 0.0009 | 0.001 | 0.0039 | 0.0022 | 0.0017 | 0.0014 | 0.0084 | . | 0.0019 | 0.0016 | 0.0031 | 0.0052 | 0.0049 | . | 0.0051 | 0.0017 |
| alloy 6090 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6091 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6092 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6101 | . | . | <0.06 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL AS60/01 | . | . | . | . | 0.0048 | . | . | . | . | . | . | . | . | 0.0058 | 0.0045 | . | 0.0036 | . |
| HRT AL2015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 6103 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|--|----------------------|--------------|-------------------------|-------------------------|-------------------------|-------------------------------------|-------------------------|-------------------------|-------------------------------------|-------------------------|----------------|-------------------------|----------------|-------------|
| 1 alloy 6105 AL 614/05 | 6105 6105 | cast | <0.10 0.0209 | <0.10 0.0299 | <0.35 0.246 | 0.45-0.80 0.616 | <0.15 0.0518 | <0.05 0.0095 | 0.60-1.00 0.630 | <0.10 0.0303 | . 0.0166 | <0.10 0.0523 | . 0.0016 | 60 x 25 |
| alloy 6106 alloy 6110 | 6106 6110 | | <0.20 0.04-0.25 | <0.25 0.20-0.70 | <0.35 <0.80 | 0.40-0.80 0.50-1.10 | 0.05-0.20 0.20-0.70 | <0.05 <0.05 | 0.30-0.60 0.70-1.50 | <0.05 <0.15 | . . | <0.10 <0.30 | . . | |
| 2 alloy 6111 AA SS-6111 | 6111 6111 | cast | <0.10 0.0303 | 0.50-0.90 0.703 | <0.40 0.250 | 0.50-1.00 0.595 | 0.10-0.45 0.235 | <0.05 . | 0.60-1.10 0.786 | <0.10 0.0414 | . 0.0105 | <0.15 0.099 | . . | 64 x 25 |
| 2 ALC-6111-AA | 6111 | wrought | 0.014 | 0.96 | 0.18 | 0.46 | 0.17 | 0.020 | 0.73 | 0.032 | 0.028 | 0.015 | 0.017 | 57 x 25 |
| 2 ALC-6111-AE | 6111 | wrought | 0.072 | 0.75 | 0.24 | 0.77 | 0.20 | 0.028 | 0.60 | 0.065 | 0.023 | 0.027 | 0.0031 | 57 x 25 |
| alloy 6113 alloy 6116 | 6113 6116 | O: 0.05-0.50 | <0.10 <0.15 | 0.60-1.10 <0.20 | <0.30 <0.25 | 0.80-1.20 0.25-0.60 | 0.10-0.60 <0.15 | <0.05 <0.05 | 0.60-1.00 0.90-1.30 | <0.10 <0.15 | . . | <0.25 <0.20 | . . | |
| 2 alloy 6151 AA SS-6151 | 6151 6151 | cast | 0.15-0.35 0.22i | <0.35 0.25 | <1.00 0.45 | 0.45-0.80 0.65 | <0.20 0.06i | <0.05 0.04i | 0.60-1.20 1.0i | <0.15 0.03i | . 0.01i | <0.25 0.08i | . <0.0030 | 64 x 25 |
| 1 AL 662/02 | 6151 | cast | 0.147 | 0.212 | 0.320 | 0.601 | 0.070 | 0.0012 | 0.700 | 0.0048 | 0.0042 | 0.100 | 0.0028 | 60 x 25 |
| 2 ALC-6151-AB | 6151 | wrought | 0.31 | 0.14 | 0.53 | 0.65 | 0.14 | 0.028 | 1.08 | 0.036 | 0.020 | 0.015i | 0.016 | 57 x 25 |
| alloy 6160 alloy 6162 alloy 6181 | 6160 6162 6181 | | <0.05 <0.10 <0.10 | <0.20 <0.20 <0.10 | <0.15 <0.50 <0.45 | 0.35-0.60 0.70-1.10 0.60-1.00 | <0.05 <0.10 <0.15 | <0.05 <0.05 <0.05 | 0.30-0.60 0.40-0.80 0.80-1.20 | <0.05 <0.10 <0.10 | . . . | <0.05 <0.25 <0.20 | . . . | |
| 2 alloy 6201 AA SS-6201 | 6201 6201 | cast | <0.03 <0.0050 | <0.10 0.03i | <0.50 0.25 | 0.60-0.90 0.75 | <0.03 0.01i | <0.03 <0.0050 | 0.50-0.90 0.75 | <0.03 <0.0050 | . <0.0050 | <0.10 0.02i | . <0.0030 | 64 x 25 |
| 2 ALC-6201-AD | 6201 | wrought | 0.019 | 0.021 | 0.25 | 0.72 | 0.018 | 0.022 | 0.68 | 0.020 | 0.022 | 0.021 | 0.0032 | 57 x 25 |
| 2 alloy 6205 ALC-6205-AA | 6205 6205 | wrought | 0.05-0.15 0.05 | <0.20 20.4 | <0.70 1.25 | 0.40-0.60 . | 0.05-0.15 1.05 | <0.05 0.051 | 0.60-0.90 2.45 | <0.15 . | . . | <0.25 5.55 | 0.05-0.15 . | 57 x 10 |
| 2 alloy 6206 ALC-6235-AB | 6206 6235 | wrought | <0.10 0.040 | 0.20-0.50 0.046 | <0.35 0.15 | 0.45-0.80 0.031 | 0.13-0.30 0.040 | <0.05 0.040 | 0.35-0.70 0.10 | <0.10 0.041 | . . | <0.20 5.45 | . . | 57 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| 2 alloy 6253 AA SS-6253 | 6253 6253 | cast | 0.04-0.35 0.22i | <0.10 0.05i | <0.50 0.25 | 1.00-1.50 1.3i | <0.05 0.02i | <0.05 0.01i | 45-65% 0.70 | <0.05 0.02i | . 0.01i | 1.60-2.40 2.0i | . <0.0030 | 64 x 25 |
| alloy 6260 alloy 6261 | 6260 6261 | | <0.03 <0.10 | <0.10 0.15-0.40 | 0.15-0.40 <0.40 | 0.45-0.70 0.70-1.00 | <0.03 0.20-0.35 | <0.05 <0.05 | 0.40-0.60 0.40-0.70 | <0.10 <0.10 | 0.10-0.25 . | <0.05 <0.20 | <0.05 . | |
| 1 alloy 6262 511X G6262B | 6262 6262 | wrought | 0.04-0.14 0.0666 | 0.15-0.40 0.243 | <0.70 0.329 | 0.80-1.20 0.829 | <0.15 0.0737 | <0.05 0.0034 | 0.40-0.80 0.557 | <0.15 0.0194 | . . | <0.25 0.0209 | . . | ~50 x ~20 |
| 2 AA SS-6262 | 6262 | cast | 0.04i | 0.30 | 0.35 | 1.0i | 0.05i | 0.03i | 0.60 | 0.05i | 0.01i | 0.05i | <0.0030 | 64 x 25 |
| alloy 6301 alloy 6303 | 6301 6303 | | <0.10 <0.05 | <0.10 0.05-0.16 | <0.70 <0.10 | 0.60-0.90 0.45-0.90 | <0.15 0.10-0.40 | <0.05 <0.05 | 0.50-0.90 0.20-0.60 | <0.15 <0.05 | . . | <0.25 <0.05 | . . | |
| 2 alloy 6351 AA SS-6351 | 6351 6351 | cast | <0.05 0.03i | <0.10 0.05i | <0.50 0.30 | 0.40-0.80 0.65 | 0.40-0.80 0.70 | <0.05 0.02i | 0.70-1.30 1.0i | <0.20 0.02i | . 0.01i | <0.20 0.03i | . <0.0030 | 64 x 25 |
| 1 AL 632/03 | 6351 | cast | 0.0222 | 0.0327 | 0.213 | 0.476 | 0.423 | 0.0082 | 0.735 | 0.0283 | 0.0048 | 0.0534 | . . | 60 x 25 |
| 2 ALC-6351-AM | 6351 | wrought | 0.029 | 0.077 | 0.21 | 0.64 | 0.57 | 0.030 | 1.09 | 0.051 | 0.020 | 0.050 | 0.0025 | 57 x 25 |
| alloy 6401 | 6401 | | <0.01 | 0.05-0.20 | <0.04 | 0.35-0.70 | <0.03 | <0.01 | 0.35-0.70 | <0.01 | . . | <0.04 . | . . | |
| 2 alloy 6463 ALC-6463-AC | 6463 6463 | wrought | <0.05 0.020 | <0.20 0.14 | <0.15 0.12 | 0.45-0.90 0.49 | <0.05 0.019 | <0.05 0.020 | 0.20-0.60 0.35 | <0.05 0.017 | . 0.020 | <0.05 0.020 | . 0.0031 | 57 x 25 |
| alloy 6763 alloy 6863 | 6763 6863 | | <0.03 <0.05 | 0.04-0.16 0.05-0.20 | <0.08 <0.15 | 0.45-0.90 0.50-0.80 | <0.03 <0.05 | <0.03 <0.05 | 0.20-0.60 0.40-0.60 | <0.03 <0.10 | <0.05 . | <0.03 <0.10 | . . | |
| 2 alloy 6951 AA SS-6951 | 6951 6951 | cast | <0.05 0.02i | 0.15-0.40 0.30 | <0.80 0.40 | 0.40-0.80 0.70 | <0.10 0.03i | <0.05 0.02i | 0.20-0.50 0.40 | <0.05 0.02i | . 0.01i | <0.20 0.10i | . <0.0030 | 64 x 25 |
| alloy 6963 | 6963 | | <0.10 | 0.15-0.25 | <0.25 | 0.35-0.70 | <0.05 | <0.05 | 0.40-0.60 | <0.10 | . . | <0.10 . | . . | |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr | |
|--|---------|---------|---------------------|---------|----------------------------|---|---------|---------|--------------------------|---------|-------------------------------|-------------------------------|----------------|-----------------------------|---------------------|---------|----------------------------|--------------------|---------|
| alloy 6105 AL 614/05 | . | 0.0033 | . | . | 0.0078 | 0.0012i | 0.0016 | 0.0041 | . | 0.0033 | 0.0003 | 0.0009i | 0.0032 | 0.0052 | 0.0035 | . | 0.0055 | . | |
| alloy 6106 alloy 6110 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 6111 AA SS-6111 ALC-6111-AA ALC-6111-AE | . | . | . | . | . | . | . | . | 0.0136 0.028 0.019 | . | . | 0.0034i 0.0034i 0.0019i | 0.007 0.003 | 0.016 0.016 | 0.004 0.0031 | . | 0.016 0.018 | 0.0030i 0.0026i | |
| alloy 6113 alloy 6116 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 6151 AA SS-6151 AL 662/02 ALC-6151-AB | <0.0010 | <0.0010 | <0.0010 0.0003 | <0.0005 | <0.0010 | <0.0005 0.0013 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 0.0006 | <0.0010 | <0.0030 0.0050 | <0.0010 0.0053 | <0.0010 | <0.0010 0.0052 | <0.0010 | <0.0010 |
| alloy 6160 alloy 6162 alloy 6181 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 6201 AA SS-6201 ALC-6201-AD | <0.0010 | <0.0010 | <0.06 0.02i | <0.0005 | <0.0010 | <0.0005 0.0033i | <0.0010 | <0.0010 | 0.02i 0.024 | <0.0005 | <0.0005 0.0028i | <0.0005 0.0026i | <0.0010 | <0.0030 0.019 | <0.0010 0.0043 | <0.0010 | <0.0010 0.021 | <0.0010 | <0.0010 |
| alloy 6205 ALC-6205-AA | . | . | . | . | 0.036 | (0.02) | . | . | . | . | . | . | . | 0.04 | . | . | 0.052 | . | |
| alloy 6206 ALC-6235-AB | . | . | . | . | 0.048 | . | . | . | . | . | . | . | . | 0.046 | . | . | 0.038 | . | |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr | |
| alloy 6253 AA SS-6253 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| alloy 6260 alloy 6261 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 6262 511X G6262B AA SS-6262 | . | . | . | . | 0.40-0.70 0.424 0.58 | . | . | . | . | . | . | . | . | 0.40-0.70 0.499 0.58 | . | . | (0.0012) | . | |
| alloy 6301 alloy 6303 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 6351 AA SS-6351 AL 632/03 ALC-6351-AM | <0.0010 | <0.0010 | <0.0010 (0.0001) | <0.0005 | <0.0010 | <0.0005 0.0021 0.0051 0.0005 0.0012 0.0070 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 0.00025 0.0032i | <0.0005 0.0004 0.0025i | <0.0010 | <0.0030 0.0058 0.0083 | <0.0010 (0.0023) | <0.0010 | <0.0010 0.0059 0.018 | <0.0010 | 0.0035 |
| alloy 6401 alloy 6463 ALC-6463-AC | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 6763 alloy 6863 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 6951 AA SS-6951 alloy 6963 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr | |

| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---|-------------|--------|------------------|-----------|-----------|-------|-----------|-----------|---------|--------|-----------|--------|-----------|-----------|-------------|
| | alloy 7001 | 7001 | | 0.18-0.35 | 1.60-2.60 | <0.40 | 2.60-3.40 | <0.20 | <0.05 | <0.35 | <0.20 | . | 6.80-8.00 | . | |
| 2 | AA SS-7001 | 7001 | cast | 0.21i | 2.1i | 0.15i | 3.1i | 0.04i | 0.01i | 0.10i | 0.03i | 0.01i | 7.6i | <0.0030 | 64 x 25 |
| 1 | AL 735/01 | 7001 | cast | 0.35 | 2.54 | 0.391 | 3.34 | 0.195 | 0.021 | 0.340 | 0.20 | . | 7.0 | . | 60 x 25 |
| | alloy 7003 | 7003 | | <0.20 | <0.20 | <0.35 | 0.50-1.00 | <0.30 | <0.05 | <0.30 | <0.20 | . | 5.00-6.50 | 0.05-0.25 | |
| 3 | AJ 030 | 7003 | cast | 0.208 | 0.217 | 0.301 | 0.768 | 0.203 | 0.046 | 0.263 | 0.081 | 0.0047 | 5.30 | 0.183 | 55 x 25 |
| 2 | ALC-7003-AC | 7003 | wrought | 0.18 | 0.15 | 0.28 | 0.90 | 0.12 | 0.030 | 0.14 | 0.032 | 0.019 | 6.23 | 0.17 | 57 x 25 |
| 1 | V 5010-1 | 7003 | cast | 0.021 | 0.011 | 0.15 | 0.73 | 0.022 | 0.012 | 0.079 | 0.018 | . | 5.61 | 0.14 | 60 x 20 |
| | alloy 7004 | 7004 | | <0.05 | <0.05 | <0.35 | 1.00-2.00 | 0.20-0.70 | <0.05 | <0.25 | <0.05 | . | 3.80-4.60 | 0.10-0.20 | |
| 2 | ALC-7004-AA | 7004 | wrought | 0.034 | 0.052 | 0.27 | 1.76 | 0.52 | 0.043 | 0.17 | 0.051 | 0.032 | 5.15 | 0.14 | 57 x 25 |
| | alloy 7005 | 7005 | | 0.06-0.20 | <0.10 | <0.40 | 1.00-1.80 | 0.20-0.70 | <0.05 | <0.35 | 0.01-0.06 | . | 4.00-5.00 | 0.08-0.20 | |
| 2 | AA SS-7005 | 7005 | cast | 0.10i | 0.10i | 0.20i | 1.3i | 0.50 | 0.02i | 0.15i | 0.02i | 0.01i | 4.5i | 0.14i | 64 x 25 |
| 1 | AL 722/01 | 7005 | cast | 0.14 | 0.08 | 0.24 | 1.23 | 0.35 | 0.03 | 0.18 | 0.015 | . | 4.24 | 0.11 | 60 x 25 |
| 1 | AL 723/01 | 7005 M | cast | 0.22 | 0.12 | 0.33 | 1.80 | 0.50 | 0.05 | 0.30 | 0.036 | . | 4.70 | 0.16 | 60 x 25 |
| 3 | V 5001-1 | 7005 | cast | 0.098 | 0.048 | 0.22 | 1.18 | 0.20 | <0.005 | 0.13 | 0.056 | . | 4.75 | 0.086 | 60 x 20 |
| 3 | V 5002-1 | 7005 | cast | 0.17 | 0.047 | 0.22 | 1.23 | 0.24 | <0.005 | 0.25 | 0.054 | . | 4.70 | 0.17 | 60 x 20 |
| | alloy 7008 | 7008 | | 0.12-0.25 | <0.05 | <0.10 | 0.70-1.40 | <0.05 | <0.05 | <0.10 | <0.05 | . | 4.50-5.50 | . | |
| | alloy 7009 | 7009 | | 0.10-0.25 | 0.60-1.30 | <0.20 | 2.10-2.90 | <0.10 | <0.05 | <0.20 | <0.20 | . | 5.50-6.50 | . | |
| | alloy 7010 | 7010 | | <0.05 | 1.50-2.00 | <0.15 | 2.10-2.60 | <0.10 | <0.05 | <0.12 | <0.06 | . | 5.70-6.70 | 0.10-0.16 | |
| | alloy 7011 | 7011 | | 0.05-0.20 | <0.05 | <0.20 | 1.00-1.60 | 0.10-0.30 | <0.05 | <0.15 | <0.05 | . | 4.00-5.50 | . | |
| | alloy 7012 | 7012 | | <0.04 | 0.80-1.20 | <0.25 | 1.80-2.20 | 0.08-0.15 | <0.05 | <0.15 | 0.02-0.08 | . | 5.80-6.50 | 0.10-0.18 | |
| | alloy 7013 | 7013 | | <0.05 | <0.10 | <0.70 | <0.05 | 1.00-1.50 | <0.05 | <0.60 | <0.05 | . | 1.50-2.00 | . | |
| | alloy 7014 | 7014 | | <0.05 | 0.30-0.70 | <0.50 | 2.20-3.20 | 0.30-0.70 | <0.10 | <0.50 | <0.05 | . | 5.20-6.20 | . | |
| | alloy 7015 | 7015 | | <0.15 | 0.06-0.15 | <0.30 | 1.30-2.10 | <0.10 | <0.05 | <0.20 | <0.10 | . | 4.60-5.20 | 0.10-0.20 | |
| | alloy 7016 | 7016 | | <0.03 | 0.45-1.00 | <0.12 | 0.80-1.40 | <0.03 | <0.03 | <0.10 | <0.03 | <0.05 | 4.00-5.00 | . | |
| | alloy 7017 | 7017 | Cr+Mn >0.15 | <0.35 | <0.20 | <0.45 | 2.00-3.00 | 0.05-0.50 | <0.10 | <0.35 | <0.15 | . | 4.00-5.20 | 0.10-0.25 | |
| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| | alloy 7018 | 7018 | | <0.20 | <0.20 | <0.45 | 0.70-1.50 | 0.15-0.50 | <0.10 | <0.35 | <0.15 | . | 4.50-5.50 | 0.10-0.25 | |
| 2 | ALC-7018-AC | 7018 | wrought | 0.12 | 0.16 | 0.33 | 1.09 | 0.30 | 0.074 | 0.20 | 0.080 | 0.018 | 4.87 | 0.16 | 57 x 25 |
| | alloy 7019 | 7019 | | <0.20 | <0.20 | <0.45 | 1.50-2.50 | 0.15-0.50 | <0.10 | <0.35 | <0.15 | . | 3.50-4.50 | 0.10-0.25 | |
| 3 | V 5006 | 7019 | cast | 0.048 | 0.083 | 0.20 | 1.80 | 0.24 | <0.005 | 0.16 | 0.060 | . | 4.09 | 0.16 | 60 x 20 |
| | alloy 7020 | 7020 | Ti+Zr: 0.08-0.25 | 0.10-0.35 | <0.20 | <0.40 | 1.00-1.40 | 0.05-0.50 | <0.05 | <0.35 | <0.05 | . | 4.00-5.00 | 0.08-0.20 | |
| 1 | 59X G7020A | 7020 | wrought | 0.192 | 0.0326 | 0.178 | 1.316 | 0.200 | 0.0051 | 0.0496 | 0.0261 | 0.0111 | 4.82 | 0.146 | ~50 x ~20 |
| | alloy 7021 | 7021 | | <0.05 | <0.25 | <0.40 | 1.20-1.80 | <0.10 | <0.05 | <0.25 | <0.10 | . | 5.00-6.00 | 0.08-0.18 | |
| 2 | AA SS-7021 | 7021 | cast | 0.03i | 0.08i | 0.30i | 1.5i | 0.05i | <0.0050 | 0.12i | 0.04i | 0.01i | 5.4i | 0.13i | 64 x 25 |
| 2 | ALC-7021-AA | 7021 | wrought | 0.033 | 0.029 | 0.38 | 1.48 | 0.037 | 0.035 | 0.22 | 0.041 | 0.012 | 5.42 | 0.16 | 57 x 25 |
| | alloy 7022 | 7022 | Ti+Zr <0.20 | 0.10-0.30 | 0.50-1.00 | <0.50 | 2.60-3.70 | 0.10-0.40 | <0.05 | <0.50 | <0.05 | . | 4.30-5.30 | . | |
| 1 | 59X G7022A | 7022 | wrought | 0.140 | 0.631 | 0.120 | 2.69 | 0.127 | 0.0030 | 0.126 | 0.0160 | . | 5.17 | 0.0016 | ~50 x ~20 |
| 2 | ALC-7022-AC | 7022 | wrought | 0.25 | 0.88 | 0.43 | 3.40 | 0.30 | 0.018 | 0.38 | 0.015 | 0.018 | 4.80 | 0.0019 | 57 x 25 |
| | alloy 7023 | 7023 | | 0.05-0.35 | 0.50-1.00 | <0.50 | 2.00-3.00 | 0.10-0.60 | <0.05 | <0.50 | <0.10 | . | 4.00-6.00 | . | |
| | alloy 7024 | 7024 | | 0.05-0.35 | <0.10 | <0.40 | 0.50-1.00 | 0.10-0.60 | <0.05 | <0.30 | <0.10 | . | 3.00-5.00 | . | |
| 1 | AL 721/01 | 7024 | cast | 0.09 | 0.05 | 0.20 | 0.81 | 0.15 | 0.01 | 0.10 | 0.010 | . | 3.70 | 0.05 | 60 x 25 |
| 3 | V 5004-1 | 7024 M | cast | 0.22 | 0.049 | 0.27 | 0.75 | 0.29 | <0.005 | 0.29 | 0.044 | . | 4.80 | 0.21 | 60 x 20 |
| | alloy 7025 | 7025 | | 0.05-0.35 | <0.10 | <0.40 | 0.80-1.50 | 0.10-0.60 | <0.05 | <0.30 | <0.10 | . | 3.00-5.00 | . | |
| 3 | V 5003-1 | 7025 M | cast | 0.047 | 0.022 | 0.18 | 0.97 | 0.096 | <0.005 | 0.10 | 0.026 | . | 4.29 | 0.15 | 60 x 20 |
| | alloy 7026 | 7026 | | <0.03 | 0.60-0.90 | <0.12 | 1.50-1.90 | 0.05-0.20 | <0.03 | <0.08 | <0.05 | . | 4.60-5.20 | 0.09-0.14 | |
| | alloy 7027 | 7027 | | <0.05 | 0.10-0.30 | <0.40 | 0.70-1.00 | 0.10-0.40 | <0.05 | <0.25 | <0.10 | . | 3.50-4.50 | 0.05-0.30 | |
| | alloy 7028 | 7028 | Ti+Zr: 0.08-0.25 | <0.20 | 0.10-0.30 | <0.50 | 1.50-2.30 | 0.15-0.60 | <0.05 | <0.35 | <0.05 | . | 4.50-5.20 | . | |
| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|-------------|-----------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| alloy 7001 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-7001 | <0.0010 | <0.0010 | <0.0010 | 0.003i | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL 735/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7003 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AJ 030 | . | . | . | 0.0030 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-7003-AC | . | . | . | 0.0012 | 0.007 | 0.0026 | 0.0016 | . | 0.020 | . | 0.0032 | 0.0030i | 0.0031 | 0.008 | 0.0035 | . | 0.017 | 0.0029 |
| V 5010-1 | . | . | 0.0005 | . | . | 0.0011 | . | . | . | . | 0.0008 | 0.0009 | . | . | . | . | . | . |
| alloy 7004 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-7004-AA | . | . | . | 0.0013 | 0.022i | 0.0040 | 0.0014 | . | 0.030 | . | 0.0015 | 0.0049i | 0.001 | 0.029 | 0.0028 | . | 0.032 | 0.0027 |
| alloy 7005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-7005 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL 722/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 723/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 5001-1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 5002-1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7009 | 0.25-0.40 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7010 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7011 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7012 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7013 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7014 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7016 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7017 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 7018 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-7018-AC | . | . | . | 0.0010 | 0.0069 | 0.0035 | 0.0012 | 0.019 | . | . | 0.0032 | 0.0036 | 0.0021 | 0.0079 | 0.0028 | . | 0.015 | 0.0038 |
| alloy 7019 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 5006 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7020 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 59X G7020A | . | . | 0.0025 | . | . | 0.0020 | . | . | . | . | . | . | . | 0.0018 | . | . | 0.0022 | . |
| alloy 7021 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-7021 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-7021-AA | . | . | . | . | 0.027 | 0.033 | . | . | (0.15) | . | . | . | . | . | . | . | 0.031 | . |
| alloy 7022 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 59X G7022A | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.0019 | . | 0.0006 | . | . |
| ALC-7022-AC | . | . | . | 0.0012 | 0.007 | 0.0024 | 0.0013 | . | 0.021 | . | 0.0028 | 0.0028 | 0.0018 | 0.008 | 0.0021 | . | 0.018 | 0.0029 |
| alloy 7023 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7024 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 721/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 5004-1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7025 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| V 5003-1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7026 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7027 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7028 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---|-------------|----------------|---------|--------------------|-------------------|-------------------|-------------------|-------------------|------------------|----------------|----------------|----------------|-------------------|--------------------|---------------|
| 2 | AA SS-7029 | 7029 | cast | <0.03 <0.0050 | 0.50-0.90 0.75 | <0.12 0.10i | 1.30-2.00 1.7i | <0.03 0.02i | <0.03 <0.0050 | <0.10 0.10i | <0.05 0.02i | <0.05 0.02i | 4.20-5.20 4.8i | . <0.0030 | 64 x 25 |
| 1 | V 5106-1 | 7030 7030 M | cast | <0.04 0.020 | 0.20-0.40 0.29 | <0.30 0.15 | 1.00-1.50 1.23 | <0.05 0.022 | <0.05 0.017 | <0.20 0.078 | <0.03 0.017 | . | 4.80-5.90 5.52 | <0.03 0.13 | 60 x 20 |
| 2 | ALC-7031-AA | 7031 7031 | wrought | <0.05 0.024 | <0.10 0.029 | 0.80-1.40 1.15 | <0.10 0.013 | 0.10-0.40 0.21 | <0.05 0.019 | <0.30 0.13 | <0.05 0.025 | 0.015 | 0.80-1.80 1.12 | . 0.007 | 57 x 25 |
| | alloy 7032 | 7032 | | 0.15-0.25 | 1.70-2.30 | <0.12 | 1.50-2.50 | <0.05 | <0.05 | <0.10 | <0.10 | . | 5.60-6.50 | . | |
| | alloy 7033 | 7033 | | <0.20 | 0.70-1.30 | <0.30 | 1.30-2.20 | <0.10 | <0.05 | <0.15 | <0.10 | <0.05 | 4.60-5.60 | 0.08-0.15 | |
| | alloy 7034 | 7034 | | <0.20 | 0.80-1.20 | <0.12 | 2.00-3.00 | <0.25 | <0.05 | <0.10 | <0.05 | . | 11.0-12.0 | 0.08-0.30 | |
| 2 | AA SS-7039 | 7039 | cast | 0.15-0.25 0.20i | <0.10 0.08i | <0.40 0.20i | 2.30-3.30 3.0i | 0.10-0.40 0.25 | <0.05 0.02i | <0.30 0.15i | <0.10 0.05 | 0.01i | 3.50-4.50 4.0i | . <0.0030 | 64 x 25 |
| | alloy 7040 | 7040 | | <0.04 | 1.50-2.30 | <0.13 | 1.70-2.40 | <0.04 | <0.05 | <0.10 | <0.06 | . | 5.70-6.70 | 0.05-0.12 | |
| 2 | AA SS-7046 | 7046 | cast | <0.20 0.10i | <0.25 0.15i | <0.40 0.14i | 1.00-1.60 1.3i | <0.05 0.20i | <0.05 <0.0050 | <0.20 0.12i | <0.06 0.04i | 0.01i | 6.60-7.60 7.1i | 0.10-0.18 0.12i | 64 x 25 |
| 2 | AA SS-7047 | 7047 | cast | 0.011 | 0.024 | 0.051 | 1.54 | 0.021 | . | 0.042 | 0.031 | 0.011 | 7.48 | 0.106 | 64 x 25 |
| | alloy 7049 | 7049 | | 0.10-0.22 | 1.20-1.90 | <0.35 | 2.00-2.90 | <0.20 | <0.05 | <0.25 | <0.10 | . | 7.20-8.20 | . | |
| 2 | AA SS-7050 | 7050 | cast | <0.05 0.02i | 2.00-2.60 2.4i | <0.15 0.15i | 1.90-2.60 2.3i | <0.10 0.03i | <0.05 0.02i | <0.12 0.08i | <0.06 0.04i | <0.0050 | 5.70-6.70 6.2i | 0.08-0.15 0.12i | 64x25 or 25x6 |
| 2 | ALC-7050-AE | 7050 | wrought | 0.031 | 2.35 | 0.120 | 2.44 | 0.089 | 0.0249 | 0.13 | 0.063 | 0.025 | 6.32 | 0.145 | 57 x 25 |
| 1 | 59X G7050A | 7050 | wrought | 0.0097 | 2.12 | 0.0742 | 2.021 | 0.0047 | 0.0041 | 0.047 | 0.0242 | 0.0092 | 6.18 | 0.100 | ~50 x ~20 |

| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---|------------|------------------------------|-------------------------|---|--|----------------------------------|---|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|--------|---|--|---------------|
| 1 | IARM 343A | 7051 7055 7055 | | 0.05-0.25 <0.04 0.0009 | <0.15 2.00-2.60 2.29 | <0.45 <0.15 0.084 | 1.70-2.50 1.80-2.30 2.04 | 0.10-0.45 <0.05 (0.002) | <0.05 <0.05 (0.005) | <0.35 <0.10 0.050 | <0.15 <0.06 0.0175 | . | 3.00-4.00 7.60-8.40 8.15 | . 0.08-0.25 0.152 | 57 x 25 |
| 1 | 59X G7068A | 7060 7064 7068 7068 | O: 0.05-0.30 wrought | 0.15-0.25 0.06-0.25 <0.05 0.0324 | 1.80-2.60 1.80-2.40 1.60-2.40 1.676 | <0.20 <0.15 <0.15 0.117 | 1.30-2.10 1.90-2.90 2.20-3.00 2.70 | <0.20 <0.05 <0.10 0.0156 | <0.05 <0.05 <0.05 0.0056 | <0.15 <0.12 <0.12 0.051 | <0.05 <0.05 <0.10 0.0419 | . | 6.10-7.50 6.80-8.00 7.30-8.30 7.96 | <0.05 0.10-0.50 0.05-0.15 0.088 | ~50 x ~20 |
| | alloy 7070 | 7070 | | <0.05 | <0.05 | <0.25 | <0.05 | <0.05 | <0.05 | <0.15 | <0.05 | . | 1.30-3.80 | . | |
| 2 | AA SS-7072 | 7072 | Fe+Si <0.70 cast | <0.05 0.03i | <0.10 0.03i | <0.05 0.28 | <0.10 0.03i | <0.10 0.04i | <0.05 0.03i | <0.05 0.14i | <0.05 0.03i | 0.01i | 0.80-1.30 1.1i | <0.0030 | 64 x 25 |
| 2 | ALC-72S-AV | 7072 | wrought | 0.035 | 0.047 | 0.20 | 0.039 | 0.040 | 0.040 | 0.10 | 0.034 | 0.005 | 0.98 | . | 57 x 25 |
| 1 | 59X G7075B | 7075 | wrought | 0.18-0.28 0.1831 | 1.20-2.00 1.227 | <0.50 0.122 | 2.10-2.90 2.231 | <0.30 0.0229 | <0.05 0.0035 | <0.40 0.066 | <0.20 0.0248 | 0.0058 | 5.10-6.10 5.49 | 0.0008 | ~50 x ~20 |
| 3 | AJ 031 | 7075 | cast | 0.205 | 1.50 | 0.300 | 2.51 | 0.112 | 0.045 | 0.199 | 0.024 | 0.0043 | 5.80 | 0.142 | 55 x 25 |
| 2 | AA SS-7075 | 7075 | cast | 0.22i | 1.6i | 0.25 | 2.6i | 0.08i | <0.0050 | 0.16i | 0.04i | 0.01i | 5.8i | <0.0030 | 64x25 or 25x6 |
| 1 | AL AS70/02 | 7075 | cast | 0.209 | 1.62 | 0.291 | 2.71 | 0.165 | 0.031 | 0.157 | 0.030 | 0.023 | 5.53 | 0.119 | 60 x 25 |
| 2 | AA WA-7075 | 7075 | cast | 0.25 | 1.2i | 0.25 | 2.6i | 0.10i | <0.0050 | 0.15i | 0.05i | . | 5.8i | . | 64 x 25 |
| 2 | AA WB-7075 | 7075 | cast | 0.25 | 2.0i | 0.25 | 2.6i | 0.10i | <0.0050 | 0.15i | 0.05i | . | 5.8i | . | 64 x 25 |
| 2 | AA WC-7075 | 7075 | cast | 0.25 | 1.6i | 0.25 | 2.6i | 0.10i | <0.0050 | 0.15i | 0.05i | . | 5.8i | . | 64 x 25 |
| 2 | AA WD-7075 | 7075 | cast | 0.25 | 1.6i | 0.25 | 2.9i | 0.10i | <0.0050 | 0.15i | 0.05i | . | 5.8i | . | 64 x 25 |
| 2 | AA WE-7075 | 7075 | cast | 0.25 | 1.6i | 0.25 | 2.6i | 0.10i | <0.0050 | 0.15i | 0.05i | . | 5.3i | . | 64 x 25 |
| 2 | AA WF-7075 | 7075 | cast | 0.25 | 1.6i | 0.25 | 2.6i | 0.10i | <0.0050 | 0.15i | 0.05i | . | 6.2i | . | 64 x 25 |
| 2 | AA WG-7075 | 7075 | cast | 0.18i | 1.6i | 0.15i | 2.6i | 0.20i | <0.0050 | 0.30 | 0.08i | . | 5.8i | . | 64 x 25 |
| 2 | AA WH-7075 | 7075 | cast | 0.30 | 1.6i | 0.35 | 2.6i | 0.03i | <0.0050 | 0.10i | 0.01i | . | 5.8i | . | 64 x 25 |
| 1 | SRM 1259 | 7075 | | 0.173 | 1.60 | 0.205 | 2.48 | 0.079 | 0.063 | 0.18 | (0.04) | . | 5.44 | . | 35 x 19 |

| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---|--------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|---|--------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--|---------|---------|---------|---------|---------|---------|----------|-----------|---------|---------|----------|----------|----------|----------|---------|---------|----------|----------|
| alloy 7029 AA SS-7029 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 7030 V 5106-1 | . | . | 0.0005 | . | . | 0.0010 | . | . | <0.03 | . | 0.0010 | 0.0014 | . | . | . | . | . | . |
| alloy 7031 ALC-7031-AA | . | . | . | 0.0035i | 0.008i | 0.0028i | . | . | 0.015 | . | 0.0032i | 0.0033i | 0.005 | 0.017 | . | . | 0.015 | . |
| alloy 7032 | . | . | . | . | <0.01 | . | . | . | . | . | . | . | . | <0.01 | . | . | . | . |
| alloy 7033 | . | . | . | . | . | . | . | . | <0.05 | . | . | . | . | . | . | . | . | . |
| alloy 7034 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7039 AA SS-7039 | <0.0010 | <0.0010 | <0.0010 | 0.003i | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 7040 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7046 AA SS-7046 | <0.0010 | <0.0010 | <0.0010 | 0.002i | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AA SS-7047 | 0.368 | . | . | . | . | . | . | . | 0.010 | . | . | . | . | . | . | . | . | . |
| alloy 7049 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7050 AA SS-7050 ALC-7050-AE 59X G7050A | <0.0010 | <0.0010 | <0.0010 | 0.001i | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | . | . | 0.0011 | 0.0011 | 0.0071 | 0.0028 | 0.0012 | . | 0.022 | . | 0.0024i | 0.0017i | 0.0012 | 0.0095 | 0.0024 | . | 0.0192 | 0.0026 |
| | . | . | 0.0011 | . | . | . | . | . | . | . | . | . | . | (0.0010) | . | . | (0.0008) | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 7051 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7055 IARM 343A | . | . | 0.0007 | . | . | 0.0024 | (0.0002) | (0.0008) | 0.012 | . | . | (0.0005) | 0.0010 | 0.0012 | . | . | . | (0.0003) |
| alloy 7060 | . | . | . | . | . | . | . | . | . | . | . | . | . | <0.003 | . | . | . | . |
| alloy 7064 | . | . | . | . | . | . | . | 0.10-0.40 | . | . | . | . | . | . | . | . | . | . |
| alloy 7068 59X G7068A | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.0020 | . | (0.001) | . | . |
| alloy 7070 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7072 AA SS-7072 ALC-72S-AV | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | . | . | . | 0.0007 | 0.040 | 0.0049 | . | . | 0.015 | . | <0.0001 | 0.0022 | (0.0001) | 0.029 | . | . | 0.043 | . |
| alloy 7075 59X G7075B AJ 031 AA SS-7075 | . | . | (0.003) | . | . | . | . | . | 0.0105 | . | . | . | . | 0.0011 | . | . | (0.0008) | . |
| | <0.0010 | <0.0010 | <0.001 | <0.0005 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.02i | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| AL AS70/02 AA WA-7075 AA WB-7075 AA WC-7075 AA WD-7075 | . | . | . | 0.001i | . | . | . | . | . | . | 0.00096i | 0.0016i | . | 0.011 | . | . | . | . |
| | . | . | . | 0.002i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | . | . | . | 0.004i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | . | . | . | 0.004i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA WE-7075 AA WF-7075 AA WG-7075 AA WH-7075 SRM 1259 | . | . | . | <0.0005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | . | . | . | <0.0005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | . | . | . | 0.001i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | . | . | . | 0.008i | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| | . | . | . | 0.0025 | . | . | . | . | (0.022) | . | . | . | . | . | . | . | . | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|----------|----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------------|
| alloy 7076 | 7076 | | <0.05 | 0.30-1.00 | <0.60 | 1.20-2.00 | 0.30-0.80 | <0.05 | <0.40 | <0.20 | . | 7.00-8.00 | . | |
| 2 AA SS-7076 | 7076 | cast | 0.02i | 0.65 | 0.35 | 1.7i | 0.55 | 0.02i | 0.15i | 0.05i | 0.01i | 7.6i | <0.0030 | 64 x 25 |
| alloy 7079 | 7079 | | 0.10-0.25 | 0.40-0.80 | <0.40 | 2.90-3.70 | 0.10-0.30 | <0.05 | <0.30 | <0.10 | . | 3.80-4.80 | . | |
| 2 AA SS-7079 | 7079 | cast | 0.16i | 0.65 | 0.22i | 3.5i | 0.20i | <0.0050 | 0.15i | 0.03i | 0.01i | 4.6i | <0.0030 | 64 x 25 |
| 2 ALC-7079-AA | 7079 | wrought | 0.22 | 0.66 | 0.24 | 3.28 | 0.25 | 0.029 | 0.20 | 0.056 | 0.02i | 4.55 | 0.0037 | 57 x 25 |
| 2 ALC-79S-AF | 7079 | wrought | 0.20 | 0.64 | 0.27 | 3.38 | 0.22 | 0.04 | 0.19 | 0.067 | . | 4.68 | . | 57 x 25 |
| alloy 7085 | 7085 | Nominal Values | . | 1.6 | . | 1.5 | . | . | . | . | . | 7.5 | 0.12 | |
| 2 AA SS-7085 | 7085 | cast | 0.02 | 1.7 | 0.04 | 1.5 | 0.02 | . | 0.03 | 0.03 | . | 7.5 | 0.10 | 64 x 25 |
| alloy 7090 | 7090 | O: 0.20-0.50 | <0.05 | 0.60-1.30 | <0.15 | 2.00-3.00 | <0.05 | <0.05 | <0.12 | <0.05 | . | 7.30-8.70 | . | |
| alloy 7091 | 7091 | O: 0.20-0.50 | <0.05 | 1.10-1.80 | <0.15 | 2.00-3.00 | <0.05 | <0.05 | <0.12 | <0.05 | . | 5.80-7.10 | . | |
| alloy 7093 | 7093 | O: 0.05-0.50 | <0.05 | 1.10-1.90 | <0.15 | 2.00-3.00 | <0.05 | 0.04-0.16 | <0.12 | <0.05 | . | 8.30-9.70 | 0.08-0.20 | |
| alloy 7104 | 7104 | | <0.05 | <0.03 | <0.40 | 0.50-0.90 | <0.05 | <0.05 | <0.25 | <0.10 | . | 3.60-4.40 | . | |
| 2 ALC-420-AA | 7104 | cast | 0.028 | 0.026 | 0.12 | 0.028 | 0.033 | 0.032 | 0.16 | 0.024 | . | 4.70 | . | 57 x 25 |
| 1 ALC-B8050-AA | 7104 | wrought | 0.025 | 0.040 | 0.27 | 0.12 | 0.044 | 0.031 | 0.15 | (0.02) | . | 4.10 | . | 57 x 25 |
| alloy 7108 | 7108 | | <0.05 | <0.05 | <0.10 | 0.70-1.40 | <0.05 | <0.05 | <0.10 | <0.05 | . | 4.50-5.50 | 0.12-0.25 | |
| alloy 7109 | 7109 | | 0.04-0.08 | 0.80-1.30 | <0.15 | 2.20-2.70 | <0.10 | <0.05 | <0.10 | <0.10 | . | 5.80-6.50 | 0.10-0.20 | |
| alloy 7116 | 7116 | | <0.05 | 0.50-1.10 | <0.30 | 0.80-1.40 | <0.05 | <0.05 | <0.15 | <0.05 | <0.05 | 4.20-5.20 | . | |
| alloy 7122 | 7122 | | <0.10 | 0.50-1.00 | <0.35 | 2.60-3.70 | <0.10 | <0.05 | <0.25 | <0.15 | . | 4.30-5.20 | 0.10-0.25 | |
| alloy 7129 | 7129 | | <0.10 | 0.50-0.90 | <0.30 | 1.30-2.00 | <0.10 | <0.05 | <0.15 | <0.05 | <0.05 | 4.20-5.20 | . | |
| alloy 7146 | 7146 | | 0.10-0.22 | 1.20-1.90 | <0.40 | 1.00-1.60 | <0.20 | <0.05 | <0.20 | <0.06 | . | 6.60-7.60 | 0.10-0.18 | |
| 2 ALC-7146-AA | 7146 | wrought | 0.028 | 0.031 | 0.36 | 1.41 | 0.037 | 0.036 | 0.22 | 0.042 | 0.011 | 6.86 | 0.16 | 57 x 25 |
| alloy 7149 | 7149 | | 0.10-0.22 | 1.20-1.90 | <0.20 | 2.00-2.90 | <0.20 | <0.05 | <0.15 | <0.10 | . | 7.20-8.20 | . | |
| alloy 7150 | 7150 | | <0.04 | 1.90-2.50 | <0.15 | 2.00-2.70 | <0.10 | <0.05 | <0.12 | <0.06 | . | 5.90-6.90 | 0.08-0.15 | |
| 1 BAM EB317 | 7150 MOD | In: 0.0162 | 0.141 | 1.770 | 0.112 | 2.39 | 0.0912 | 0.0359 | 0.0271 | 0.0952 | 0.0105 | 6.92 | 0.130 | 50 x 30 |
| alloy 7175 | 7175 | | 0.18-0.28 | 1.20-2.00 | <0.20 | 2.10-2.90 | <0.10 | <0.05 | <0.15 | <0.10 | . | 5.10-6.10 | . | |
| alloy 7178 | 7178 | | 0.18-0.35 | 1.60-2.40 | <0.50 | 2.40-3.10 | <0.30 | <0.05 | <0.40 | <0.20 | . | 6.30-7.30 | . | |
| 2 AA SS-7178 | 7178 | cast | 0.25 | 2.0i | 0.20i | 2.9i | 0.08i | 0.02i | 0.15i | 0.05i | 0.01i | 6.8i | <0.0030 | 64 x 25 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
| alloy 7179 | 7179 | | 0.10-0.25 | 0.40-0.80 | <0.20 | 2.90-3.70 | 0.10-0.30 | <0.05 | <0.15 | <0.10 | . | 3.80-4.80 | . | |
| alloy 7229 | 7229 | | <0.03 | 0.50-0.90 | <0.08 | 1.30-2.00 | <0.03 | <0.03 | <0.06 | <0.05 | <0.05 | 4.20-5.20 | . | |
| alloy 7249 | 7249 | | 0.12-0.18 | 1.30-1.90 | <0.12 | 2.00-2.40 | <0.10 | <0.05 | <0.10 | <0.06 | . | 7.50-8.20 | . | |
| alloy 7250 | 7250 | | <0.04 | 2.00-2.40 | <0.10 | 1.90-2.30 | <0.10 | <0.05 | <0.08 | <0.06 | . | 5.70-6.50 | 0.08-0.13 | |
| alloy 7277 | 7277 | | 0.18-0.35 | 0.80-1.70 | <0.70 | 1.70-2.30 | <0.05 | <0.05 | <0.50 | <0.10 | . | 3.70-4.30 | . | |
| alloy 7278 | 7278 | | 0.17-0.25 | 1.60-2.20 | <0.20 | 2.50-3.20 | <0.02 | <0.03 | <0.15 | <0.03 | <0.05 | 6.60-7.40 | . | |
| alloy 7349 | 7349 | Ti+Zr <0.25 | 0.10-0.22 | 1.40-2.10 | <0.15 | 1.80-2.70 | <0.20 | <0.05 | <0.12 | <0.05 | . | 7.50-8.70 | . | |
| alloy 7449 | 7449 | Ti+Zr <0.25 | <0.05 | 1.40-2.10 | <0.15 | 1.80-2.70 | <0.20 | <0.05 | <0.12 | <0.05 | . | 7.50-8.70 | . | |
| alloy 7472 | 7472 | | <0.05 | <0.05 | <0.60 | 0.90-1.50 | <0.05 | <0.05 | <0.25 | <0.05 | . | 1.30-1.90 | . | |
| alloy 7475 | 7475 | | 0.18-0.25 | 1.20-1.90 | <0.12 | 1.90-2.60 | <0.06 | <0.05 | <0.10 | <0.06 | . | 5.20-6.20 | . | |
| alloy 8001 | 8001 | | <0.05 | <0.15 | 0.45-0.70 | <0.05 | <0.05 | 0.90-1.30 | <0.17 | <0.05 | . | <0.05 | . | |
| alloy 8004 | 8004 | | <0.02 | <0.03 | <0.15 | <0.02 | <0.02 | <0.02 | <0.15 | 0.30-0.70 | . | <0.03 | . | |
| alloy 8005 | 8005 | | <0.05 | <0.05 | 0.40-0.80 | <0.05 | <0.05 | <0.05 | 0.20-0.50 | <0.05 | . | <0.05 | . | |
| 1 AL 141/01 | 8005 | cast | 0.0040 | 0.020 | 0.40 | 0.0110 | 0.022 | 0.0060 | 0.41 | <0.001 | 0.0010 | 0.0140 | . | 60 x 25 |
| alloy 8006 | 8006 | | <0.05 | <0.30 | 1.20-2.00 | <0.10 | 0.30-1.00 | <0.05 | <0.40 | <0.05 | . | <0.10 | . | |
| alloy 8007 | 8007 | | <0.05 | <0.10 | 1.20-2.00 | <0.10 | 0.30-1.00 | <0.05 | <0.40 | <0.05 | . | 0.80-1.80 | . | |
| 2 ALC-8007-AE | 8007 | wrought | 0.031 | 0.049 | 1.61 | 0.014 | 0.56 | 0.029 | 0.025 | 0.011 | 0.020 | 1.11 | . | 57 x 25 |
| 2 ALC-8007-AG | 8007 | wrought | 0.030 | 0.051 | 1.63 | 0.0011 | 0.47 | 0.029 | 0.20 | 0.014 | 0.019 | 1.10 | 0.019 | 57 x 25 |
| alloy 8008 | 8008 | | <0.05 | <0.20 | 0.90-1.60 | <0.05 | 0.50-1.00 | <0.05 | <0.60 | <0.10 | . | <0.10 | . | |
| 2 ALC-8008-AC | 8008 | wrought | 0.053 | 0.17 | 1.12 | 0.013 | 0.74 | 0.028 | 0.19 | 0.030 | 0.032 | 0.049 | 0.0039 | 57 x 25 |
| 1 V 1511-1 | 8008 | cast | 0.0042 | 0.0026 | 0.97 | <0.0005 | 0.51 | 0.0097 | 0.13 | <0.0002 | <0.0002 | 0.041 | <0.0002 | 60 x 20 |
| alloy 8009 | 8009 | O: <0.30 | <0.10 | <0.05 | 8.40-8.90 | <0.05 | <0.10 | <0.05 | 1.70-1.90 | <0.10 | 1.10-1.50 | <0.25 | . | |
| alloy 8010 | 8010 | | <0.20 | 0.10-0.30 | 0.35-0.70 | 0.10-0.50 | 0.10-0.80 | <0.05 | <0.40 | <0.10 | . | <0.40 | . | |
| 1 51X G00H 2E | 8010 | cast | 0.0174 | 0.111 | 0.356 | 0.093 | 0.154 | 0.119 | 0.350 | 0.128 | 0.0148 | 0.113 | 0.0150 | 50x20 or 40x15 |
| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|-----------|---------|----------|---------|---------|-----------|---------|-----------|--------|---------|---------|---------|----------|---------|---------|---------|---------|---------|
| alloy 7076 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-7076 | <0.0010 | <0.0010 | <0.0010 | 0.002i | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| alloy 7079 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-7079 | <0.0010 | <0.0010 | <0.0010 | 0.003i | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| ALC-7079-AA | . | . | . | 0.0013 | 0.020 | 0.0026 | 0.0014 | . | 0.020 | . | 0.0038 | 0.0018 | 0.0015 | 0.014 | 0.0034 | . | 0.022 | 0.0028 |
| ALC-79S-AF | . | . | . | . | 0.040 | . | . | . | 0.02 | . | . | . | . | 0.04 | . | . | 0.042 | . |
| alloy 7085 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-7085 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7090 | . | . | . | . | . | . | . | 1.00-1.90 | . | . | . | . | . | . | . | . | . | . |
| alloy 7091 | . | . | . | . | . | . | . | 0.20-0.60 | . | . | . | . | . | . | . | . | . | . |
| alloy 7093 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7104 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-420-AA | . | . | . | . | 0.034 | . | . | . | 0.014 | . | . | . | . | 0.032 | . | . | 0.10 | . |
| ALC-B8050-AA | . | . | . | . | (0.02) | 4.01 | . | . | 0.02 | . | . | . | . | 0.029 | . | . | 0.025 | last |
| alloy 7108 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7109 | 0.25-0.40 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7116 | . | . | . | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| alloy 7122 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7129 | . | . | . | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| alloy 7146 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-7146-AA | . | . | . | . | 0.025 | . | . | . | 0.015 | . | . | . | . | 0.030 | . | . | 0.032 | . |
| alloy 7149 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7150 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| BAM EB317 | 0.0073 | . | (0.0037) | 0.00101 | 0.0041 | (0.00060) | . | . | 0.0183 | . | . | . | (0.0027) | 0.00479 | . | . | 0.0237 | . |
| alloy 7175 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7178 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-7178 | <0.0010 | <0.0010 | <0.0010 | 0.0001 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.015 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
| alloy 7179 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7229 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7249 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7250 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7277 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7278 | . | . | . | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| alloy 7349 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7449 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7472 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 7475 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8001 | . | . | . | . | <0.001 | . | <0.003 | <0.001 | . | . | <0.008 | . | . | . | . | . | . | . |
| alloy 8004 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 141/01 | . | . | 0.0150 | . | . | . | . | 0.0090 | . | . | . | . | . | 0.010 | 0.010 | . | 0.010 | . |
| alloy 8006 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8007 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-8007-AE | . | . | . | 0.0021i | 0.020 | 0.0027i | . | . | 0.031 | . | 0.0007i | 0.0018i | 0.0032 | 0.015 | . | . | 0.018 | . |
| ALC-8007-AG | . | . | . | 0.0023 | 0.017 | 0.0002 | . | . | 0.018 | . | 0.0002 | <0.0001 | 0.002 | 0.016 | . | . | 0.0170 | 0.0004 |
| alloy 8008 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-8008-AC | . | . | . | 0.0012 | 0.024 | 0.0022i | 0.0014 | . | 0.024 | . | 0.0017i | 0.0017i | 0.0042 | 0.016 | 0.0037 | . | 0.017 | 0.0025i |
| V 1511-1 | . | . | 0.0016 | <0.0001 | . | <0.0002 | 0.0015 | . | 0.0041 | 0.0048 | <0.0001 | 0.0029 | <0.0005 | 0.0034 | <0.0002 | . | 0.0008 | <0.0001 |
| alloy 8009 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8010 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| 51X G00H 2E | . | (0.005) | . | . | 0.011 | . | 0.0031 | . | 0.011 | . | . | . | . | 0.114 | 0.0265 | . | 0.0065 | . |
| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------------|-------|-----------------------------|-----------|-----------|-----------|-----------|-----------|--------|-----------|------------|-----------|--------|-----------|-------------|
| alloy 8011 | 8011 | | <0.05 | <0.10 | 0.60-1.00 | <0.05 | <0.20 | <0.05 | 0.50-0.90 | <0.08 | . | <0.10 | . | |
| 2 AA SS-8011 | 8011 | cast | . | 0.0218 | 0.699 | . | 0.0217 | . | 0.536 | 0.0394 | 0.0129 | 0.0201 | . | 64 x 25 |
| 2 ALC-A8011-AC | 8011 | wrought | 0.020 | 0.028 | 0.74 | 0.014i | 0.022 | 0.021 | 0.75 | 0.020 | 0.019 | 0.021 | 0.0022 | 57 x 25 |
| 3 V 1408 | 8011 | cast | 0.026 | 0.035 | 0.75 | 0.048 | 0.056 | 0.0022 | 0.82 | 0.0049 | 0.023 | 0.048 | 0.002 | 60 x 20 |
| 3 V 1409-1 | 8011 | cast | 0.048 | 0.09 | 0.68 | 0.05 | 0.047 | 0.049 | 0.56 | 0.033 | 0.031 | 0.052 | 0.0029 | 60 x 20 |
| alloy 8013 | 8013 | Fe+Se <0.25 | 0.20-0.50 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.03 | <0.10 | . | <0.03 | . | |
| alloy 8014 | 8014 | | <0.05 | <0.20 | 1.20-1.60 | <0.10 | 0.20-0.60 | <0.05 | <0.30 | <0.10 | . | <0.10 | . | |
| alloy 8015 | 8015 | | <0.05 | <0.10 | 0.80-1.40 | <0.10 | 0.10-0.40 | <0.05 | <0.30 | <0.05 | . | <0.10 | . | |
| 1 AL 156/02 | 8015 | cast | 0.031 | 0.052 | 1.28 | 0.063 | 0.056 | 0.022 | 0.31 | 0.042 | 0.0073 | 0.035 | 0.0100 | 65 x 25 |
| 2 ALC-8015-AA | 8015 | wrought | 0.016 | 0.030 | 1.05 | 0.012 | 0.18 | 0.020 | 0.13 | 0.021 | 0.010 | 0.026 | 0.014 | 57 x 25 |
| alloy 8016 | 8016 | | <0.05 | <0.10 | 0.70-1.10 | <0.10 | 0.10-0.30 | <0.05 | <0.20 | <0.05 | . | <0.10 | . | |
| alloy 8017 | 8017 | | <0.03 | 0.10-0.20 | 0.55-0.80 | 0.01-0.05 | <0.03 | <0.03 | <0.10 | <0.03 | . | <0.05 | . | |
| alloy 8018 | 8018 | | <0.05 | 0.30-0.60 | 0.60-1.00 | <0.05 | <0.30 | <0.05 | 0.50-0.90 | 0.006-0.06 | . | <0.05 | . | |
| 2 ALC-8018-AB | 8018 | wrought | 0.017 | 0.46 | 0.77 | 0.0075i | 0.069 | 0.015 | 0.76 | 0.043 | 0.016 | 0.015 | 0.0030 | 57 x 25 |
| alloy 8019 | 8019 | Ce: 3.50-4.50, O: 0.05-0.50 | <0.05 | <0.05 | 7.30-9.30 | <0.05 | <0.05 | <0.05 | <0.20 | <0.05 | . | <0.05 | . | |
| alloy 8020 | 8020 | | <0.03 | <0.005 | <0.10 | <0.03 | <0.005 | <0.03 | <0.10 | <0.03 | <0.05 | <0.005 | . | |
| alloy 8021 | 8021 | | <0.05 | <0.05 | 1.20-1.70 | <0.05 | <0.05 | <0.05 | <0.15 | <0.05 | . | <0.05 | . | |
| 2 ALC-8021-AA | 8021 | wrought | 0.010 | 0.014 | 1.42 | 0.0048i | 0.0075 | 0.010 | 0.11 | 0.021 | 0.022 | 0.010 | 0.0033 | 57 x 25 |
| alloy 8022 | 8022 | O: 0.05-0.20 | <0.10 | <0.05 | 6.20-6.80 | <0.05 | <0.10 | <0.05 | 1.20-1.40 | <0.10 | 0.40-0.80 | <0.25 | . | |
| alloy 8023 | 8023 | | <0.02 | 0.10-0.40 | 1.30-1.60 | <0.005 | 0.30-0.60 | <0.05 | <0.20 | 0.05-0.10 | . | <0.05 | . | |
| alloy 8024 | 8024 | | <0.05 | <0.05 | <0.12 | <0.05 | <0.05 | <0.05 | <0.10 | <0.05 | . | <0.05 | 0.08-0.25 | |
| alloy 8025 | 8025 | | <0.18 | <0.25 | 0.06-0.25 | <0.05 | 0.03-0.10 | <0.05 | 0.05-0.15 | 0.005-0.02 | . | <0.50 | 0.02-0.20 | |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---------------|-------|--------------|---------|-----------|-----------|-----------|-----------|---------|-----------|---------|---------|---------|-----------|-------------|
| alloy 8030 | 8030 | | <0.03 | 0.15-0.30 | 0.30-0.80 | <0.05 | <0.03 | <0.03 | <0.10 | <0.03 | . | <0.05 | . | |
| 2 ALC-8030-AC | 8030 | wrought | 0.020 | 0.20 | 0.83 | 0.018 | 0.0032 | 0.024 | 0.066 | 0.003 | 0.020 | 0.014 | 0.0028 | 57 x 25 |
| alloy 8040 | 8040 | Fe+Se <1.00 | <0.15 | <0.20 | <0.15 | <0.15 | <0.05 | <0.15 | <0.15 | <0.15 | . | <0.20 | 0.10-0.30 | |
| alloy 8050 | 8050 | | <0.05 | <0.05 | 1.10-1.20 | <0.05 | 0.45-0.55 | <0.05 | 0.15-0.30 | <0.05 | . | <0.10 | . | |
| alloy 8076 | 8076 | | <0.03 | <0.04 | 0.60-0.90 | 0.08-0.22 | <0.03 | <0.03 | <0.10 | <0.03 | . | <0.05 | . | |
| alloy 8077 | 8077 | | <0.03 | <0.05 | 0.10-0.40 | 0.10-0.30 | <0.03 | <0.03 | <0.10 | <0.03 | . | <0.05 | 0.02-0.08 | |
| 1 AL 124/04 | 8077 | cast, Ce, La | 0.0509 | 0.0533 | 0.145 | 0.0558 | 0.0540 | 0.0592 | 0.105 | 0.0505 | 0.0449 | 0.0515 | 0.0054 | 60 x 25 |
| alloy 8079 | 8079 | | <0.05 | <0.05 | 0.70-1.30 | <0.05 | <0.05 | <0.05 | 0.05-0.30 | <0.05 | . | <0.10 | . | |
| 2 AA ST1-8079 | 8079 | cast | <0.0010 | <0.0010 | 1.2i | <0.0010 | <0.0010 | <0.0010 | 0.13i | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 64 x 25 |
| 2 AA ST2-8079 | 8079 | cast | 0.003i | 0.03i | 1.2i | 0.003i | 0.003i | 0.004i | 0.13i | 0.004i | 0.002i | 0.015i | 0.004i | 64 x 25 |
| 2 ALC-8079-AF | 8079 | wrought | 0.020 | 0.020i | 1.08 | 0.0028i | 0.020i | 0.020 | 0.21 | 0.020 | 0.02 | 0.020 | 0.0019 | 57 x 25 |
| alloy 8081 | 8081 | | <0.05 | 0.70-1.30 | <0.70 | <0.05 | <0.10 | <0.05 | <0.70 | <0.10 | . | <0.05 | . | |
| alloy 8090 | 8090 | | <0.10 | 1.00-1.60 | <0.30 | 0.60-1.30 | <0.10 | <0.05 | <0.20 | <0.10 | . | <0.25 | 0.04-0.16 | |
| alloy 8091 | 8091 | | <0.10 | 1.60-2.20 | <0.50 | 0.50-1.20 | <0.10 | <0.05 | <0.30 | <0.10 | . | <0.25 | 0.08-0.16 | |
| alloy 8093 | 8093 | | <0.10 | 1.00-1.60 | <0.10 | 0.90-1.60 | <0.10 | <0.05 | <0.10 | <0.10 | . | <0.25 | 0.04-0.14 | |
| alloy 8111 | 8111 | | <0.05 | <0.10 | 0.40-1.00 | <0.05 | <0.10 | <0.05 | 0.30-1.10 | <0.08 | . | <0.10 | . | |
| 1 AL 142/03 | 8111 | cast | 0.050 | 0.049 | 0.481 | 0.047 | 0.055 | 0.048 | 0.471 | 0.030 | 0.0077 | 0.078 | 0.0100 | 60 x 25 |
| alloy 8112 | 8112 | | <0.20 | <0.40 | <1.00 | <0.70 | <0.60 | <0.05 | <1.00 | <0.20 | . | <1.00 | . | |
| 1 AL 611/03 | 8112 | cast | 0.0010 | 0.0012 | 0.069 | 0.211 | 0.0020 | 0.0016 | 0.198 | 0.0015 | 0.0004 | 0.0013 | 0.0010 | 60 x 25 |
| 2 ALC-8112-AA | 8112 | wrought | 0.024 | 0.26 | 0.66 | 0.014 | 0.11 | 0.020 | 0.52 | 0.028 | 0.028 | 0.035 | 0.015 | 57 x 25 |
| alloy 8130 | 8130 | Fe+Si <1.00 | <0.03 | 0.05-0.15 | 0.40-1.00 | <0.03 | <0.03 | <0.03 | <0.15 | <0.03 | . | <0.10 | . | |
| 1 V 1502-1 | 8130 | cast | 0.0004 | 0.071 | 0.98 | 0.0013 | 0.0053 | 0.0004 | 0.021 | 0.026 | 0.0102 | 0.0008 | 0.0032 | 60 x 20 |
| alloy 8150 | 8150 | | <0.05 | <0.05 | 0.90-1.30 | <0.05 | 0.20-0.70 | <0.05 | <0.30 | <0.05 | . | <0.05 | . | |
| alloy 8176 | 8176 | | <0.05 | <0.05 | 0.40-1.00 | <0.05 | <0.05 | <0.05 | 0.03-0.15 | <0.05 | . | <0.10 | . | |
| 2 ALC-1145-AE | 8176 | wrought | 0.020 | 0.028 | 0.40 | 0.022i | 0.031 | 0.030 | 0.10 | 0.031 | 0.020 | 0.030 | 0.0030 | 57 x 25 |

| # Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|
|----------|-------|---------|----|----|----|----|----|----|----|----|---|----|----|-------------|

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------------|----|----|-----------|---------|-----------|---------|--------|----|--------|----|-----------|---------|--------|--------|--------|----|-----------|---------|
| alloy 8011 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA SS-8011 | . | . | . | . | . | . | . | . | 0.0147 | . | . | . | . | . | . | . | . | . |
| ALC-A8011-AC | . | . | . | 0.0007i | 0.0075 | 0.0009i | 0.0013 | . | 0.019 | . | 0.0009i | 0.0013i | 0.0029 | 0.0084 | 0.0016 | . | 0.015 | 0.0012i |
| V 1408 | . | . | 0.001 | . | . | . | . | . | 0.011 | . | . | . | . | 0.0014 | . | . | . | . |
| V 1409-1 | . | . | . | . | . | . | . | . | 0.05 | . | . | . | . | 0.045 | . | . | 0.049 | . |
| alloy 8013 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8014 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AL 156/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.0007 | . | . | . | . |
| ALC-8015-AA | . | . | . | 0.0033 | 0.02 | 0.0025i | . | . | 0.015 | . | 0.0026i | 0.0041i | 0.004 | 0.016 | . | . | 0.017 | 0.0016i |
| alloy 8016 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8017 | . | . | <0.04 | . | . | . | . | . | . | . | <0.003 | . | . | . | . | . | . | . |
| alloy 8018 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-8018-AB | . | . | . | 0.0010 | 0.0076 | 0.0016i | 0.0016 | . | 0.015 | . | 0.0015i | 0.0017i | 0.0026 | 0.0094 | 0.0036 | . | 0.015 | 0.0031i |
| alloy 8019 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8020 | . | . | . | . | 0.10-0.50 | . | . | . | . | . | . | . | . | . | . | . | 0.10-0.25 | . |
| alloy 8021 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| ALC-8021-AA | . | . | . | 0.0011 | 0.010 | 0.0018 | 0.0013 | . | 0.032 | . | 0.0014 | 0.0010i | 0.0028 | 0.0082 | 0.003 | . | 0.0083 | 0.0020 |
| alloy 8022 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8023 | . | . | 0.01-0.02 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8024 | . | . | . | . | . | . | . | . | . | . | 3.40-4.20 | . | . | . | . | . | . | . |
| alloy 8025 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr | |
|-------------|---------|---------|------------|---------|---------|---------|---------|---------|---------|---------|-----------|---------|---------|---------|---------|---------|-----------|---------|---------|
| alloy 8030 | . | . | 0.001-0.04 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| ALC-8030-AC | . | . | . | 0.0009 | 0.027 | 0.0025i | 0.0018 | . | 0.029 | . | 0.0016i | 0.0018i | 0.006 | 0.016 | (0.006) | . | 0.016 | 0.0027i | |
| alloy 8040 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 8050 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 8076 | . | . | <0.04 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 8077 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| AL 124/04 | 0.0190 | . | <0.05 | 0.0019 | 0.0151 | 0.0003 | 0.0210 | 0.0201 | 0.0365 | . | 0.0007i | 0.0017i | . | 0.0232 | 0.0252 | . | 0.0208 | . | |
| alloy 8079 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| AA ST1-8079 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | <0.0010 | |
| AA ST2-8079 | . | . | <0.0010 | 0.0002 | 0.004i | 0.002i | 0.0005 | 0.0005 | 0.016 | 0.0002 | 0.001i | 0.0015 | 0.0005 | 0.004i | . | . | 0.005i | 0.0012 | |
| ALC-8079-AF | . | . | . | 0.0008i | 0.0078 | 0.0078 | 0.0078 | . | 0.020 | . | 0.0016i | 0.0015i | 0.0017 | 0.0073 | 0.0029 | . | 0.019 | 0.0016i | |
| alloy 8081 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 18.0-22.0 | . | |
| alloy 8090 | . | . | . | . | . | . | . | . | . | . | 2.20-2.70 | . | . | . | . | . | . | . | |
| alloy 8091 | . | . | . | . | . | . | . | . | . | . | 2.40-2.80 | . | . | . | . | . | . | . | |
| alloy 8093 | . | . | . | . | . | . | . | . | . | . | 1.90-2.60 | . | . | . | . | . | . | . | |
| alloy 8111 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| AL 142/03 | . | . | (0.0008) | 0.0009 | . | 0.0008 | 0.0009 | 0.0019 | . | . | 0.00009i | 0.0009i | . | 0.0047 | 0.0061 | . | 0.0047 | . | |
| alloy 8112 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| AL 611/03 | . | . | 0.0002 | . | . | 0.0017 | 0.0058 | 0.0010 | . | 0.0108 | 0.00076i | <0.0001 | 0.0018 | 0.0009 | . | . | 0.0010 | . | |
| ALC-8112-AA | . | . | . | 0.0011 | 0.011 | 0.0025i | 0.0035 | . | 0.028 | . | 0.0012i | 0.0026i | 0.0056 | 0.008 | 0.0051 | . | 0.018 | 0.0044i | |
| alloy 8130 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| V 1502-1 | . | . | <0.0002 | 0.0001 | . | 0.0013 | <0.0002 | . | 0.015 | <0.0002 | <0.0001 | . | 0.0026 | <0.0002 | <0.0002 | . | 0.0012 | 0.0002 | |
| alloy 8150 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| alloy 8176 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | |
| ALC-1145-AE | . | . | . | 0.0008 | 0.0082 | 0.0014i | 0.0011 | . | <0.03 | 0.019 | (0.0018) | 0.0019i | 0.0021i | 0.0025 | 0.0080 | 0.0021 | . | 0.020 | 0.0017i |

| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|
|--------|----|----|---|----|----|----|----|----|----|----|----|----|---|----|----|----|----|----|

| # | Number | Grade | Comment | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | mm Ø x mm H |
|---|------------|-------|------------|-------|-----------|-----------|-----------|-----------|-----------|-----------|-------|---|-------|----|-------------|
| | alloy 8177 | 8177 | | <0.05 | <0.04 | 0.25-0.45 | 0.04-0.12 | <0.05 | <0.05 | <0.10 | <0.05 | . | <0.05 | . | |
| | alloy 8211 | 8211 | | <0.15 | <0.10 | 0.50-1.00 | <0.10 | 0.05-0.20 | <0.06 | 0.40-0.80 | <0.05 | . | <0.10 | . | |
| | alloy 8276 | 8276 | V+Ti <0.03 | <0.01 | <0.035 | 0.50-0.80 | <0.02 | <0.01 | <0.03 | <0.25 | <0.03 | . | <0.05 | . | |
| | alloy 8280 | 8280 | | <0.05 | 0.70-1.30 | <0.70 | <0.05 | <0.05 | 0.20-0.70 | 1.00-2.00 | <0.10 | . | <0.05 | . | |

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| Number | Ag | As | B | Be | Bi | Ca | Cd | Co | Ga | Hg | Li | Na | P | Pb | Sb | Sc | Sn | Sr |
|------------|----|----|-------|----|----|----|----|----|-------|----|----|----|---|----|----|----|-----------|----|
| alloy 8177 | . | . | <0.04 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8211 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . |
| alloy 8276 | . | . | <0.02 | . | . | . | . | . | <0.03 | . | . | . | . | . | . | . | . | . |
| alloy 8280 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 5.50-7.00 | . |

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| # | Number | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | Ag | As | B | Ba | Be | Bi | Ca |
|---|-------------|----------|----------|-----------|-----------|----------|-----------|-----------|----------|----------|-----------|----------|-----------|-----------|------------|-----------|----------|----------|----------|-----------|
| 1 | AL 116/04 | 0.0051 | 0.0070 | 0.0105 | 0.0048 | 0.0050 | 0.0051 | 0.0049 | 0.0111 | 0.0020 | 0.0026 | 0.0052 | 0.0019 | 0.0020 | 0.0058 | 0.0004 | <0.0001 | 0.00028 | 0.0021 | (0.00007) |
| 2 | AA SS-1188 | <0.0050 | <0.0050 | 0.061 | 0.021 | 0.011 | 0.0051 | <0.0050 | 0.041 | 0.011 | 0.011 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0001 | <0.0005 | <0.0010 | <0.0005 |
| 1 | PY 574 | 0.00475 | 0.0094 | 0.0175 | 0.00585 | 0.0325 | 0.0052 | 0.00556 | 0.0152 | 0.00570 | . | 0.0138 | . | . | . | . | . | . | . | . |
| 1 | PY 122C/01 | 0.0027 | 0.0148 | 0.0981 | 0.0009 | 0.0042 | 0.0104 | 0.0024 | 0.0585 | 0.0038 | . | 0.0153 | 0.00010 | . | . | . | . | . | . | . |
| 1 | PY 9204 | 0.00210 | 0.00984 | 0.0989 | 0.00191 | 0.0054 | 0.0154 | . | 0.097 | 0.00341 | 0.00127 | 0.00134 | . | . | . | 0.00014 | . | . | . | . |
| 1 | AL 117/04 | 0.0013 | 0.0023 | 0.0141 | 0.0014 | 0.0019 | 0.0010 | 0.0013 | 0.0152 | 0.0006 | 0.0009 | 0.0011 | 0.0015 | 0.0005 | (<0.00005) | 0.0013 | 0.00045 | 0.00049 | 0.0026 | (0.0006) |
| 1 | AL 117/03 | 0.0013 | 0.0023 | 0.0141 | 0.0014 | 0.0019 | 0.0010 | 0.0013 | 0.0152 | 0.0006 | 0.0009 | 0.0011 | 0.0015 | 0.0005 | (<0.00005) | 0.0013 | 0.00045 | 0.00049 | 0.0026 | (0.0006) |
| 2 | AA WA-1199 | 0.0011 | 0.0011 | 0.0021 | 0.0011 | 0.0011 | 0.0011 | <0.0010 | <0.0010 | 0.0011 | 0.0011 | 0.0011 | 0.0011 | 0.0011 | <0.0010 | <0.0010 | 0.0005 | 0.0011 | 0.0005 | <0.0005 |
| 3 | V 1403 | 0.0007 | 0.014 | 0.092 | 0.0054 | 0.0084 | 0.0066 | 0.0024 | 0.089 | 0.0025 | 0.0097 | 0.024 | 0.002 | <0.0002 | . | 0.0006 | . | . | . | <0.0002 |
| 3 | V 1401 | 0.0006 | 0.019 | 0.038 | 0.004 | 0.001 | 0.0015 | 0.0011 | 0.062 | 0.0022 | 0.0025 | 0.012 | 0.0017 | . | . | . | . | . | . | <0.0002 |
| 1 | AL 114/03 | 0.0006 | 0.0018 | 0.0050 | 0.0011 | 0.0013 | 0.0019 | 0.0009 | 0.0034 | (0.0004) | 0.00008 | <0.0002 | <0.0002 | <0.00005 | <0.0001 | 0.017 | <0.0001 | <0.00005 | 0.0011 | (0.0001) |
| 1 | V 1209-1 | <0.0006 | 0.074 | 0.0018 | 0.0050 | 0.0002 | 0.0001 | 0.02 | 0.013 | <0.0002 | . | <0.0002 | <0.0001 | 0.0001 | 0.005 | <0.0001 | <0.0001 | 0.053 | <0.0002 | <0.0002 |
| 1 | PY 9202 | 0.000501 | 0.00098 | 0.00397 | . | 0.00088 | 0.00046 | . | 0.0039 | 0.00018 | <0.00002 | 0.00031 | . | . | . | 0.00046 | . | . | . | . |
| 1 | V 1200-1 | 0.0004 | 0.0054 | 0.0027 | <0.0001 | 0.0011 | 0.0107 | 0.0004 | 0.010 | 0.0001 | <0.0001 | 0.0062 | <0.0001 | <0.0001 | . | 0.0002 | 0.0001 | <0.0001 | <0.0002 | <0.0002 |
| 3 | V 1203 | <0.0003 | 0.0021 | 0.022 | 0.0035 | 0.0014 | 0.0014 | 0.0006 | 0.052 | 0.002 | . | 0.019 | 0.0009 | . | . | . | . | . | . | <0.0001 |
| 1 | V 1202-1 | <0.0002 | 0.0007 | 0.024 | 0.0001 | 0.0021 | 0.0004 | 0.0022 | 0.014 | <0.0002 | <0.0003 | 0.0021 | <0.0002 | . | . | 0.0002 | . | . | . | . |
| 1 | V 1002-1 | <0.0002 | 0.00029 | 0.00106 | <0.00005 | 0.00079 | 0.0002 | <0.0002 | 0.0071 | <0.0001 | <0.00005 | 0.00157 | <0.00005 | <0.00005 | <0.00005 | 0.00012 | 0.00053 | <0.00001 | <0.0001 | 0.00028 |
| 3 | V 1004 | 0.00014 | 0.0036 | 0.0064 | . | 0.00025 | 0.0012 | 0.00014 | 0.0076 | 0.0001 | . | 0.0068 | . | . | . | 0.0001 | . | . | . | 0.00006 |
| 1 | AL 113/03 | <0.0001 | 0.00023 | 0.0054 | 0.00007 | 0.0008 | 0.00010 | 0.0010 | 0.0012 | 0.00011 | 0.00039 | 0.00025 | 0.0003 | . | . | . | . | <0.00001 | 0.00053 | <0.0001 |
| 2 | AA SS-1000 | <0.0001 | <0.0001 | 0.0001 | <0.0001 | 0.0008 | <0.0001 | <0.0001 | 0.0002 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | . | <0.0001 | <0.0001 | <0.0001 |
| 3 | AJ 061 | <0.0001 | <0.0001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0010 | <0.0001 | <0.0001 | <0.0001 | . | . | . | <0.0001 | . | . | . | <0.0001 |
| 3 | V 1005 | 0.00006 | 0.0011 | 0.018 | 0.0018 | 0.0018 | 0.0018 | 0.0018 | 0.027 | <0.0002 | <0.0002 | 0.0022 | . | . | . | 0.0002 | . | . | . | <0.0005 |
| 1 | V 1000-1 | <0.00006 | 0.00011 | 0.00027 | <0.00002 | 0.00028 | 0.00005 | <0.00004 | 0.0012 | 0.00002 | <0.00004 | 0.00035 | <0.00002 | <0.00001 | <0.00001 | 0.00004 | <0.00002 | <0.00002 | <0.00003 | <0.00004 |
| 3 | V 1001 | <0.00004 | 0.00013 | 0.00086 | <0.0001 | 0.0014 | 0.00007 | 0.00006 | 0.0048 | 0.00008 | <0.00002 | 0.0009 | <0.00001 | <0.00001 | 0.00007 | 0.00016 | <0.00005 | <0.00003 | <0.00004 | 0.00007 |
| 3 | V 1003 | <0.00004 | 0.0030 | 0.0045 | . | 0.0005 | 0.0005 | <0.00004 | 0.0035 | <0.00003 | . | 0.0045 | . | . | . | 0.00013 | . | . | . | 0.00006 |
| 3 | V R-06 | 0.00002 | 0.00018 | 0.00085 | 0.000003 | 0.00032 | 0.00004 | 0.00011 | 0.0004 | <0.00002 | 0.000004 | 0.00061 | <0.00006 | . | 0.00002 | 0.00009 | . | . | . | . |
| 1 | JSAC 0121-B | 0.000113 | 0.000348 | 0.00094 | . | 0.000282 | 0.000173 | . | 0.00110 | 0.000196 | . | 0.000203 | 0.000202 | . | . | 0.000198 | . | . | . | . |
| 3 | V 1066 | 0.00001 | 0.00003 | 0.00005 | <0.00001 | 0.00019 | <0.00003 | <0.00002 | 0.00012 | 0.00002 | <0.00001 | 0.00001 | 0.00006 | <0.00001 | <0.00001 | <0.00003 | <0.00002 | <0.00001 | <0.00001 | <0.00002 |
| 1 | AL 112/03 * | <0.00001 | <0.00004 | 0.00006 | <0.00001 | 0.00005 | <0.00001 | <0.00001 | 0.00007 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 | 0.00001 | <0.00001 | <0.00001 | <0.00001 | <0.00001 |
| 3 | V R-17 | <0.00001 | <0.00004 | <0.00005 | <0.00001 | <0.00005 | <0.00002 | <0.00001 | <0.00008 | <0.00005 | <0.00003 | <0.00002 | <0.00002 | . | . | <0.00002 | . | . | . | . |
| 3 | V R-14 | 0.000037 | 0.00377 | 0.00257 | 0.00015 | 0.000241 | 0.000076 | 0.00005 | 0.0032 | 0.000148 | 0.000061 | 0.000261 | 0.000038 | . | 0.00002 | <0.00002 | . | . | . | . |
| 3 | V R-20 | 0.000018 | 0.00025 | 0.0002 | . | 0.00021 | <0.00002 | 0.000007 | 0.00035 | 0.00005 | 0.000006 | 0.000043 | . | . | . | 0.0001 | . | . | . | . |
| 1 | PY 9201 | 0.000008 | 0.000035 | 0.00005 | <0.00005 | 0.000004 | <0.00005 | <0.00005 | 0.00002 | <0.00002 | <0.00002 | 0.000033 | . | . | . | 0.00005 | . | . | . | . |
| 3 | V R-16 | 0.000008 | 0.000032 | 0.00005 | <0.000001 | 0.00019 | <0.00003 | <0.000013 | 0.00012 | 0.000017 | <0.00001 | 0.00001 | 0.00006 | . | . | 0.000001 | <0.00002 | . | . | . |
| 3 | V R-09 | 0.000004 | 0.00004 | 0.00005 | <0.000001 | 0.00008 | 0.000006 | <0.00001 | <0.0001 | <0.00005 | <0.00001 | 0.00002 | <0.00002 | . | . | <0.000008 | <0.00005 | . | . | . |
| 3 | V R-07 | 0.000003 | 0.000043 | 0.00006 | 0.000003 | 0.000049 | 0.000009 | <0.00001 | <0.00005 | <0.00008 | <0.000005 | 0.000035 | <0.00001 | . | . | 0.000002 | <0.00005 | . | . | . |
| 3 | V R-08 | 0.000003 | 0.000002 | <0.00005 | 0.000001 | 0.000016 | 0.000002 | <0.000005 | 0.00002 | <0.00002 | 0.000002 | 0.000004 | <0.000003 | . | . | <0.000001 | <0.00002 | . | . | . |
| 3 | V R-24 | 0.000002 | 0.00005 | <0.000063 | <0.00006 | <0.0001 | <0.000012 | <0.000001 | 0.00006 | <0.00008 | <0.00002 | 0.00003 | . | . | . | <0.000003 | <0.00005 | . | . | . |
| 3 | V R-11 | 0.000017 | 0.00004 | 0.000005 | 0.000005 | 0.00009 | 0.000015 | 0.00001 | <0.0001 | <0.00004 | <0.00001 | <0.00002 | <0.00005 | . | . | <0.000003 | <0.00003 | . | . | . |
| 3 | V R-10 | 0.000001 | 0.000026 | 0.000054 | <0.00002 | 0.0001 | <0.000012 | <0.000001 | <0.00005 | <0.00008 | <0.000004 | 0.000009 | <0.00005 | . | . | <0.000002 | <0.00005 | . | . | . |
| 1 | PY 9206 | . | . | . | 0.000006 | . | . | 0.00006 | . | . | . | . | <0.00003 | <0.000005 | . | . | . | . | <0.00005 | . |

| # | Number | Cd | Ce | Co | Hg | In | La | Li | Na | Nd | P | Pb | Sb | Sc | Sn | Sr | Th | U | Units | |
|---|------------|---------|---------|---------|---------|--------|--------|----------|----------|-----------|---------|---------|---------|---------|---------|----------|----|----------|-----------|-----------|
| 1 | AL 116/04 | 0.0011 | 0.0011 | 0.0020 | 0.0004 | 0.0049 | 0.0033 | 0.00011 | <0.0001 | Mo:0.0076 | 0.0019 | 0.0029 | 0.0035 | . | 0.0031 | 0.00085 | . | W:0.0015 | c 60 x 25 | |
| 2 | AA SS-1188 | <0.0010 | . | <0.0010 | <0.0005 | . | . | <0.0005 | <0.0005 | . | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | . | c 64 x 25 | |
| 1 | PY 574 | . | . | 0.0054 | . | . | . | . | . | . | . | 0.0051 | . | . | 0.00550 | . | . | . | c 55 x 30 | |
| 1 | PY 122C/01 | 0.00020 | . | 0.0008 | . | . | . | . | . | . | . | 0.0146 | 0.0032 | . | 0.0147 | . | . | . | c 55 x 30 | |
| 1 | PY 9204 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 | |
| 1 | AL 117/04 | 0.0003 | 0.0003 | 0.0014 | 0.0002 | 0.0015 | 0.0019 | 0.00052 | 0.00041 | Mo:0.0031 | 0.0006 | 0.0015 | 0.0003 | . | 0.0018 | 0.00093 | . | W:0.0008 | c 68 Ø 25 | |
| 1 | AL 117/03 | 0.0003 | 0.0003 | 0.0014 | 0.0002 | 0.0015 | 0.0019 | (0.0007) | (0.0006) | Mo:0.0031 | 0.0006 | 0.0015 | 0.0003 | . | 0.0018 | (0.0011) | . | W:0.0008 | c 68 Ø 25 | |
| 2 | AA WA-1199 | 0.0011 | . | 0.0011 | . | . | . | <0.0005 | <0.0005 | . | . | 0.0031 | 0.0011 | . | 0.0011 | 0.0011 | . | . | c 64 x 25 | |
| 3 | V 1403 | . | . | . | <0.0002 | . | . | . | . | . | <0.0004 | 0.0005 | . | . | . | . | . | last | c 60 x 20 | |
| 3 | V 1401 | . | . | . | . | . | . | . | . | . | . | 0.0006 | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL 114/03 | 0.0031 | <0.0001 | 0.00104 | <0.0001 | | | | | | | | | | | | | | | |

Purity Aluminum, chart 2 of 2

| # | Number | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | Ag | Al | As | B | Ba | Be | Bi | Ca |
|---|--------------|---------|---------|---------|---------|---------|---------|---------|--------|---------|---------|---------|---------|----------|--------|----------|----------|----------|---------|---------|---------|
| 2 | AA WC-1000 | 0.08i | 0.08i | 0.10i | . | 0.08i | 0.08i | 0.08i | 0.10i | 0.08i | 0.04i | 0.08i | . | . | . | . | . | . | . | 0.08i | . |
| 1 | 51X G00H 4C | 0.060 | 0.046 | 0.082 | 0.031 | 0.054 | 0.079 | 0.032 | (0.04) | 0.0292 | 0.022 | 0.179 | 0.027 | 0.020 | . | (0.0026) | . | . | 0.0011 | 0.024 | . |
| 2 | ALC-1050-AK | 0.040 | 0.0334 | 0.297 | 0.026 | 0.0302i | 0.0317 | 0.0215 | 0.169 | 0.0304 | 0.0203 | 0.0427 | 0.0032 | . | . | 0.0002 | . | 0.0010i | 0.0074 | 0.0020i | . |
| 2 | AA WB-1000 | 0.03i | 0.03i | 0.10i | . | 0.03i | 0.03i | 0.03i | 0.10i | 0.03i | 0.02i | 0.03i | . | . | . | . | . | . | . | 0.03i | . |
| 1 | AL 123/04 | 0.032i | 0.032i | 0.107 | 0.0207 | 0.0267 | 0.0301 | 0.0309 | 0.073 | 0.0312 | 0.0311 | 0.0301 | 0.0311 | 0.0048 | . | . | . | . | 0.0008 | 0.0206 | . |
| 2 | AJ 003 | 0.032 | 0.035 | 0.107 | 0.029 | 0.025 | 0.032 | 0.031 | 0.110 | 0.026 | 0.029 | 0.055 | 0.010 | . | . | . | . | . | 0.0016 | 0.0097 | 0.0007 |
| 2 | ALC-A6005-AG | 0.028 | 0.135 | 0.24 | 0.020 | 0.62 | 0.25 | 0.030 | 0.88 | 0.030 | 0.021 | 0.031 | 0.0033 | . | . | . | . | . | 0.0011 | 0.007i | 0.0036 |
| 2 | AA ST1-1050 | 0.02i | 0.03i | 0.33 | 0.025 | 0.03i | 0.04i | 0.01i | 0.015 | 0.03i | 0.025 | 0.04i | 0.004i | . | . | 0.0005 | <0.0010 | . | 0.0002 | 0.03i | 0.002i |
| 1 | V 1413-1 | 0.022 | 0.038 | 0.35 | 0.02 | 0.03i | 0.017 | 0.02i | 0.14 | 0.028 | 0.020 | 0.032 | 0.0031 | . | . | 0.0012 | . | 0.0013 | 0.0013 | 0.0058 | 0.0013 |
| 2 | ALC-LIM G | 0.020 | 0.020 | 0.034 | 0.013 | 0.0044 | 0.012 | 0.024 | 0.050 | 0.0099 | 0.0040 | 0.011 | 0.0058 | (0.007) | . | (0.006) | 0.0030 | (0.002) | 0.0018 | 0.010 | 0.0033 |
| 1 | AL 122/08 | 0.0197 | 0.0199 | 0.0510 | 0.0192 | 0.0179 | 0.0198 | 0.0200 | 0.0502 | 0.0192 | 0.0203 | 0.0202 | 0.0153 | 0.0188 | . | 0.0057 | <0.0002 | 0.0010 | 0.00048 | 0.0094 | 0.0007 |
| 2 | AA WA-1000 | 0.01i | 0.01i | 0.10i | . | 0.01i | 0.01i | 0.01i | 0.10i | 0.01i | 0.01i | 0.01i | . | . | . | . | . | . | . | 0.01i | . |
| 2 | AA WE-1000 | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | 0.01i | . | . | . | . | . | . | . | 0.01i | . |
| 2 | ALC-X1100-AH | 0.016 | 0.088 | 0.42 | 0.022 | 0.015 | 0.037 | 0.031 | 0.43 | 0.028 | 0.0215 | 0.026 | 0.0032 | . | . | . | . | . | 0.0010 | 0.016 | 0.0021i |
| 1 | AL 135/02 | 0.015 | 0.020 | 0.29 | 0.013 | 0.020 | 0.020 | 0.016 | 0.052 | 0.023 | 0.0062 | 0.0080 | . | . | . | . | . | . | . | 0.0020 | . |
| 3 | AJ 002 | 0.011 | 0.0099 | 0.043 | 0.0091 | 0.0082 | 0.0098 | 0.010 | 0.039 | 0.0099 | 0.010 | 0.010 | . | . | . | . | . | . | . | . | . |
| 2 | ALC-LIM E | 0.0099 | 0.0088 | 0.113 | 0.0059 | 0.0028 | 0.0062 | 0.012 | 0.023 | 0.0045 | 0.0020 | 0.0049 | 0.0031 | (0.0035) | . | (0.0004) | 0.0017 | (0.0020) | 0.0007 | 0.0063 | 0.0013 |
| 1 | AL 131/03 | 0.0096 | 0.0210 | 0.123 | 0.0054 | 0.0211 | 0.0123 | 0.0025 | 0.112 | 0.0045 | 0.0068 | 0.0118 | 0.0010 | . | . | . | (0.0003) | . | 0.00024 | 0.0012 | 0.0034i |
| 1 | PY 768 | 0.0056 | 0.0006 | 0.1935 | <0.0004 | 0.0093 | 0.0203 | 0.0051 | 0.0994 | 0.0104 | 0.0138 | 0.0003 | 0.0061 | . | . | . | . | . | . | . | . |
| 1 | PY 769 | 0.0056 | 0.0004 | 0.2009 | <0.0004 | 0.0093 | 0.0204 | 0.0051 | 0.0999 | 0.0105 | 0.0139 | 0.0002 | 0.0040 | . | . | . | . | . | . | . | . |
| 1 | PY 9205 | 0.00502 | 0.0312 | 0.0298 | . | 0.00480 | 0.00495 | . | 0.0285 | 0.00813 | 0.00222 | 0.00993 | . | . | . | . | 0.00007 | . | . | . | . |
| 2 | AA SS-1050 | <0.0050 | 0.04i | 0.30 | 0.02i | <0.0050 | <0.0050 | <0.0050 | 0.12i | <0.0050 | 0.01i | <0.0050 | 0.001i | 0.001i | . | 0.008i | <0.0005 | . | 0.0005 | 0.001i | <0.0005 |
| 2 | AA SS-1100 | <0.0050 | 0.15i | 0.50 | 0.02i | 0.03i | 0.04i | <0.0050 | 0.18i | 0.02i | 0.01i | 0.08i | <0.0030 | <0.0010 | . | <0.0010 | <0.0010 | . | <0.0005 | <0.0010 | <0.0005 |
| 2 | AA SS-1075 | <0.0050 | <0.0050 | 0.12i | 0.02i | <0.0050 | <0.0050 | <0.0050 | 0.07i | <0.0050 | 0.03i | <0.0050 | 0.003i | 0.003i | . | <0.0005 | <0.0005 | . | 0.0015 | <0.0050 | <0.0005 |
| 2 | AA WA-1100 | <0.0050 | 0.20i | 0.30 | . | 0.05i | 0.08i | <0.0050 | 0.12i | 0.04i | . | 0.02i | . | . | . | . | . | . | . | . | . |
| 2 | AA WB-1100 | <0.0050 | 0.10i | 0.60 | . | 0.01i | 0.02i | <0.0050 | 0.22i | 0.01i | . | 0.04i | . | . | . | . | . | . | . | . | . |
| 1 | V 1410-3 | 0.00418 | 0.0118 | 0.1068 | 0.0238 | 0.00342 | 0.00717 | 0.00549 | 0.0619 | 0.00289 | 0.00518 | 0.0119 | 0.00278 | 0.00121 | . | 0.00204 | 0.00032 | 0.00060 | 0.00073 | 0.0040 | 0.00021 |
| 2 | AA WD-1000 | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | 0.004i | . | . | . | . | . | . | 0.004i | . |
| 2 | AJ HP-4002 | 0.0030 | 0.0031 | 0.0031 | 0.0033 | 0.0028 | 0.0034 | 0.0031 | 0.0030 | 0.0032 | 0.0030 | 0.0031 | 0.0030 | . | . | . | . | . | . | 0.0030 | . |
| 1 | V 1411-1 | 0.00100 | 0.00119 | 0.00078 | 0.0307 | 0.00020 | 0.00042 | 0.00355 | 0.0238 | <0.0002 | 0.00080 | 0.00274 | 0.00017 | . | [99.9] | <0.0002 | 0.00893 | <0.0002 | 0.00007 | 0.0118 | <0.0002 |
| 1 | AL 611/03 | 0.0010 | 0.0012 | 0.069 | . | 0.21i | 0.0020 | 0.0016 | 0.198 | 0.0015 | 0.0004 | 0.0013 | 0.0010 | . | . | . | 0.0002 | . | . | . | 0.0017 |
| 1 | V 1402-2 | 0.0005 | 0.012 | 0.048 | 0.0078 | 0.0020 | 0.0023 | 0.0013 | 0.064 | 0.017 | 0.0044 | 0.016 | 0.0009 | 0.0005 | . | 0.0006 | 0.0006 | . | . | . | 0.0001 |
| 1 | AL 134/05 | 0.0002 | 0.0038 | 0.286 | 0.0010 | 0.0025 | 0.0032 | 0.0011 | 0.152 | <0.0001 | <0.0001 | 0.0012 | 0.0002 | . | . | 0.0055 | 0.0031i | 0.00050 | . | . | 0.0004i |
| 2 | ALC-HP-FM | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | 0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | . | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 | <0.0001 |
| 2 | BCS 198F | . | 0.005 | 0.001 | . | . | . | . | 0.002 | . | . | . | . | . | 99.99 | . | . | . | . | . | . |
| 2 | BCS 195G | . | 0.001 | 0.080 | 0.009 | . | 0.001 | . | 0.035 | . | 0.004 | 0.015 | . | . | 99.85 | . | . | . | . | . | . |

| # | Number | Cd | Ce | Co | Hg | In | La | Li | Mo | Na | P | Pb | Sb | Sc | Sn | Sr | Ta | Tl | W | Units | |
|---|--------------|--------|--------|--------|--------|--------|--------|----------|----------|---------|--------|--------|----------|--------|--------|---------|--------|----------|--------|-------|-------------|
| 2 | AA WC-1000 | . | . | . | . | . | . | . | . | . | . | 0.08i | . | . | 0.08i | . | . | . | . | . | c 64 x 25 |
| 1 | 51X G00H 4C | 0.0267 | . | 0.0109 | 0.0011 | . | . | . | . | . | . | 0.0204 | 0.0077 | . | 0.028 | . | . | . | . | . | c ~50 x ~20 |
| 2 | ALC-1050-AK | 0.0012 | . | 0.0001 | . | . | . | 0.0027i | 0.0002 | 0.0024i | 0.0018 | 0.0079 | 0.0028 | . | 0.015 | 0.0019i | . | . | . | . | w 57 x 25 |
| 2 | AA WB-1000 | . | . | . | . | . | . | . | . | . | . | 0.03i | . | . | 0.03i | . | . | . | . | . | c 64 x 25 |
| 1 | AL 123/04 | 0.0096 | . | 0.0096 | . | . | . | . | . | 0.0003i | . | 0.0109 | . | . | 0.0158 | . | . | . | . | . | c 60 x 25 |
| 2 | AJ 003 | . | . | . | . | . | . | . | . | . | . | 0.020 | 0.009 | . | 0.020 | . | . | . | . | . | c 55 x 25 |
| 2 | ALC-A6005-AG | 0.0012 | . | . | . | . | . | 0.0028i | . | 0.0025i | 0.004 | 0.008 | 0.0024 | . | 0.020 | 0.0035 | . | . | . | . | w 57 x 25 |
| 2 | AA ST1-1050 | 0.0005 | . | 0.0005 | 0.0002 | . | . | 0.0011 | . | 0.0015 | 0.0005 | 0.02i | 0.0031 | . | 0.02i | 0.0012 | . | . | . | . | c 64 x 25 |
| 1 | V 1413-1 | 0.0016 | . | 0.0013 | . | . | . | 0.0013 | . | 0.0017 | 0.0023 | 0.0073 | 0.003 | . | 0.0050 | 0.0006 | . | . | . | . | c 60 x 20 |
| 2 | ALC-LIM G | 0.0038 | . | 0.0020 | 0.0051 | . | . | 0.0016 | . | 0.0023 | 0.0065 | 0.012 | (0.0087) | . | 0.021 | 0.0013 | . | . | . | . | 57 ø x 25 |
| 1 | AL 122/08 | 0.0049 | 0.0141 | 0.0149 | 0.0076 | 0.0112 | 0.0205 | 0.00083 | 0.0096 | 0.0021 | 0.0041 | 0.0100 | 0.0100 | 0.0046 | 0.0101 | 0.0011 | 0.0008 | 0.0130 | 0.0102 | . | c 60 x 25 |
| 2 | AA WA-1000 | . | . | . | . | . | . | . | . | . | . | 0.01i | . | . | 0.01i | . | . | . | . | . | c 64 x 25 |
| 2 | AA WE-1000 | . | . | . | . | . | . | . | . | . | . | 0.01i | . | . | 0.01i | . | . | . | . | . | c 64 x 25 |
| 2 | ALC-X1100-AH | 0.0010 | . | . | . | . | . | 0.0014i | . | 0.0021i | 0.0038 | 0.013 | 0.0039 | . | 0.015 | 0.0024i | . | . | . | . | w 57 x 25 |
| 1 | AL 135/02 | . | . | 0.0010 | . | 0.0020 | . | . | . | . | . | 0.0023 | . | . | 0.0052 | . | . | . | . | . | c 60 x 25 |
| 3 | AJ 002 | . | . | . | . | . | . | . | . | . | . | 0.0096 | . | . | 0.0096 | . | . | . | . | . | c 55 x 25 |
| 2 | ALC-LIM E | 0.0020 | . | 0.0043 | 0.0018 | . | . | 0.0007 | (0.0016) | 0.0012 | 0.0054 | 0.0062 | 0.0054 | . | 0.0098 | 0.0031 | . | (0.0070) | . | . | 57 ø x 25 |
| 1 | AL 131/03 | 0.0009 | . | . | . | . | . | 0.00009i | . | 0.0006i | 0.0010 | 0.0058 | 0.0003 | . | 0.0024 | . | . | . | . | . | c 60 x 25 |
| 1 | PY 768 | 0.0004 | . | 0.0041 | . | . | . | . | . | . | . | 0.0040 | 0.0093 | . | 0.0040 | . | . | . | . | . | c 55 x 30 |
| 1 | PY 769 | 0.0004 | . | 0.0034 | . | . | . | . | . | . | . | 0.0040 | 0.0095 | . | 0.0040 | . | . | . | . | . | c 55 x 30 |
| 1 | PY 9205 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 2 | AA SS-1050 | | | | | | | | | | | | | | | | | | | | |

CRM Purity Aluminum Sets

available as SETS ONLY, as grouped

49710: 62 mm Ø x 30 mm

49715: 45 mm Ø x 40 mm

| Number | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Si | Ti | V | Zn | Zr |
|----------------|---------|---------|--------|--------|---------|--------|--------|--------|---------|-----------|--------|--------|
| NCS HS49710d-1 | . | 0.010 | 0.137 | 0.012 | 0.0074 | 0.010 | 0.0051 | 0.168 | 0.011 | . | 0.017 | . |
| NCS HS49710d-2 | . | 0.0052 | 0.058 | 0.0034 | 0.0027 | 0.0030 | 0.0036 | 0.052 | 0.0010 | . | 0.0044 | . |
| NCS HS49710d-3 | . | 0.093 | 1.20 | 0.020 | 0.068 | 0.054 | 0.033 | 1.18 | 0.037 | . | 0.083 | . |
| NCS HS49710d-4 | . | 0.035 | 0.334 | 0.029 | 0.025 | 0.025 | 0.052 | 0.363 | 0.018 | . | 0.045 | . |
| NCS HS49710d-5 | . | 0.051 | 0.709 | 0.040 | 0.043 | 0.091 | 0.089 | 0.577 | 0.086 | . | 0.136 | . |
| NCS HS49710d-6 | . | 0.028 | 0.920 | 0.050 | 0.143 | 0.205 | 0.114 | 0.913 | 0.064 | . | 0.188 | . |
| NCS HS49715-2 | 0.00097 | 0.00017 | 0.0016 | 0.0032 | 0.00039 | 0.0019 | 0.0026 | 0.0015 | 0.00084 | (0.00077) | 0.0025 | 0.0025 |
| NCS HS49715-4 | 0.0069 | 0.012 | 0.033 | 0.011 | 0.0092 | 0.010 | 0.011 | 0.031 | 0.012 | (0.0014) | 0.011 | 0.014 |
| NCS HS49715-5 | 0.0018 | 0.0033 | 0.0091 | 0.0012 | 0.0052 | 0.0041 | 0.0059 | 0.0073 | 0.0021 | (0.00052) | 0.0047 | 0.0057 |
| NCS HS49715-6 | 0.015 | 0.014 | 0.063 | 0.015 | 0.014 | 0.012 | 0.042 | 0.044 | 0.017 | (0.0012) | 0.016 | 0.019 |
| NCS HS49715-7 | . | 0.0020 | 0.397 | . | 0.0022 | 0.0030 | . | 0.111 | 0.012 | 0.0099 | . | . |

CRM Low Alloy Set

available as SET ONLY

62 mm Ø x 30 mm

| Number | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | Zn |
|----------------|-------|-------|-------|-------|-------|--------|-------|-------|-------|
| NCS HS49719a-1 | 0.360 | 0.093 | 0.112 | 0.752 | 0.090 | 0.0092 | 0.353 | 0.043 | 0.093 |
| NCS HS49719a-2 | 0.282 | 0.205 | 0.252 | 0.589 | 0.212 | 0.037 | 0.565 | 0.080 | 0.135 |
| NCS HS49719a-3 | 0.198 | 0.311 | 0.311 | 0.640 | 0.318 | 0.068 | 0.625 | 0.109 | 0.182 |
| NCS HS49719a-4 | 0.138 | 0.418 | 0.425 | 0.397 | 0.416 | 0.089 | 0.791 | 0.130 | 0.229 |
| NCS HS49719a-5 | 0.064 | 0.514 | 0.528 | 0.324 | 0.545 | 0.140 | 0.980 | 0.175 | 0.288 |

CRM ROHS / WEEE Individual Samples - also see Hg on page 57

certified analysis

informational analysis

60 mm Ø x 25 mm

| Number | As | Cd | Hg | Pb | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr |
|-----------|---------|--------|---------|--------|--------|------|------|------|------|-------|------|-------|-------|-------|-------|
| AL 353/02 | 0.0061 | 0.0050 | 0.0059 | 0.0053 | 0.001 | 0.15 | 0.46 | 1.08 | 1.16 | 0.003 | 0.26 | 0.025 | 0.011 | 0.052 | 0.005 |
| AL 352/02 | 0.00142 | 0.0021 | 0.0022 | 0.0039 | 0.0007 | 0.15 | 0.48 | 1.06 | 1.13 | 0.003 | 0.26 | 0.019 | 0.010 | 0.049 | 0.005 |
| AL 351/02 | 0.00135 | 0.0013 | 0.00094 | 0.0025 | 0.001 | 0.15 | 0.46 | 1.08 | 1.16 | 0.003 | 0.26 | 0.025 | 0.011 | 0.052 | 0.005 |

CRM ROHS / WEEE Sets

available as SETS ONLY, as grouped

| Number | As | Cd | Cu | Hg | Pb | Units |
|---------------|--------|--------|---------|--------|--------|-----------------------------------|
| NCS HS49735-1 | . | 0.0017 | . | 0.0038 | 0.0023 | 62 mm Ø x 30 mm |
| NCS HS49735-2 | . | 0.0047 | . | 0.039 | 0.0060 | 62 mm Ø x 30 mm piece -2 sold out |
| NCS HS49735-3 | . | 0.0088 | . | 0.059 | 0.011 | 62 mm Ø x 30 mm |
| NCS HS49735-4 | . | 0.0085 | . | 0.0027 | 0.010 | 62 mm Ø x 30 mm |
| NCS HS49735-5 | . | 0.017 | . | 0.0039 | 0.019 | 62 mm Ø x 30 mm piece -5 sold out |
| NCS HS49735-6 | . | 0.037 | . | 0.0062 | 0.035 | 62 mm Ø x 30 mm |
| NCS HS49727-1 | 0.017 | 0.0038 | (0.082) | . | 0.0022 | 62 mm Ø x 30 mm |
| NCS HS49727-2 | . | 0.019 | (0.469) | . | 0.011 | 62 mm Ø x 30 mm |
| NCS HS49727-3 | 0.038 | 0.010 | (0.284) | . | 0.029 | 62 mm Ø x 30 mm |
| NCS HS49727-4 | 0.011 | 0.027 | (0.080) | . | 0.019 | 62 mm Ø x 30 mm |
| NCS HS49727-5 | 0.0057 | . | . | . | . | 60 mm Ø x 8 mm |
| NCS HS49727-6 | 0.024 | . | . | . | . | 60 mm Ø x 8 mm |

Low Alloy

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|---------|---------|---------|--------|--------|--------|---------|--------|---------|----------|---------------|----------|----------|----------|--------|---------|
| 1 | AL 651/02 | . | 0.495 | 0.0100 | 0.301 | 0.187 | . | 0.91 | 0.296 | 0.0065 | 0.394 | 0.583 | . | 0.013 | 0.0069 | 0.051 | . |
| 2 | HRT AL2015 | . | . | . | . | 0.19 | . | 0.36 | 0.003 | 0.004 | . | 0.45 | . | 0.011 | 0.017 | 0.005 | . |
| 2 | AA ST2-6063 | 0.0002 | 0.02i | 0.015 | 0.05i | 0.22i | 0.025 | 0.05i | 0.05i | 0.03i | 0.02i | 0.45 | 0.02i | 0.03i | 0.03i | 0.03i | 0.004i |
| 3 | AJ 025 | <0.0001 | <0.0001 | 0.0001 | 0.0005 | 0.197 | 0.0002 | 0.495 | 0.0005 | 0.0002 | <0.0001 | 0.423 | <0.0001 | 0.0003 | 0.0002 | 0.0004 | <0.0001 |
| 1 | AL 613/08 | 0.0011 | 0.0036 | 0.0050 | 0.0101 | 0.268 | 0.0172 | 0.399 | 0.0193 | 0.0044 | 0.0107 | 0.413 | 0.0111 | 0.0146 | 0.0109 | 0.0087 | 0.0044 |
| 1 | AL 141/01 | . | . | 0.0040 | 0.020 | 0.40 | . | 0.0110 | 0.022 | 0.0060 | 0.010 | 0.41 | 0.010 | <0.001 | 0.0010 | 0.0140 | . |
| 1 | ERM-EB312a | . | 0.00180 | 0.0320 | 0.0509 | 0.198 | 0.0129 | 0.379 | 0.0488 | 0.00407 | 0.00497 | 0.403 | . | 0.0291 | 0.00673 | 0.0297 | 0.00085 |
| 1 | V 1406-2 | 0.0011 | . | 0.0024 | 0.054 | 0.38 | 0.012 | 0.022 | 0.052 | 0.011 | 0.0030 | 0.40 | 0.0016 | 0.0043 | 0.025 | 0.12 | 0.0098 |
| 3 | V 1407 | . | . | 0.0098 | 0.06 | 0.28 | 0.01 | 0.027 | 0.024 | 0.003 | 0.001 | 0.40 | 0.001 | 0.022 | 0.026 | 0.042 | 0.002 |
| 1 | 51X G00H 2E | . | 0.011 | 0.0174 | 0.111 | 0.356 | 0.011 | 0.093 | 0.154 | 0.119 | 0.114 | 0.350 | 0.0065 | 0.128 | 0.0148 | 0.113 | 0.0150 |
| 2 | ALC-6463-AC | 0.0011 | 0.012 | 0.020 | 0.14 | 0.12 | 0.018 | 0.49 | 0.019 | 0.020 | 0.007 | 0.35 | 0.019 | 0.017 | 0.020 | 0.020 | 0.0031 |
| 1 | AL 612/02 | 0.0023 | . | 0.0030 | 0.0101 | 0.132 | . | 0.316 | 0.0065 | 0.0009 | 0.0027 | 0.315 | . | (0.0023) | (0.0048) | 0.0031 | . |
| 1 | AL 741/01 | . | . | 0.024 | 0.10 | 0.40 | . | 0.035 | 0.105 | 0.012 | . | 0.31 | . | 0.027 | . | 0.81 | . |
| 1 | AL 136/03 | 0.00019 | 0.0002 | 0.037 | 0.056 | 0.365 | 0.030 | 0.038 | 0.058 | 0.032 | 0.0010 | 0.294 | 0.0003 | 0.030 | 0.025 | 0.034 | 0.0098 |
| 3 | AJ 006 | 0.0044 | 0.054 | 0.054 | 0.106 | 0.303 | 0.058 | 0.051 | 0.052 | 0.046 | 0.051 | 0.286 | 0.052 | 0.048 | 0.048 | 0.096 | 0.046 |
| 2 | AA SS-3102 | <0.0005 | <0.0010 | 0.02i | 0.07i | 0.45 | 0.02i | 0.02i | 0.18i | 0.02i | 0.001i | 0.25 | <0.0010 | 0.02i | 0.01i | 0.10i | <0.0030 |
| 1 | PY 67995 | . | . | 0.0215 | 0.0400 | 0.3700 | 0.0103 | 0.0240 | 0.0390 | 0.0190 | (0.02) | 0.1700 | . | 0.0170 | . | 0.0740 | . |
| 2 | ALC-X1120-AC | 0.0010i | 0.007 | 0.019 | 0.45 | 0.15 | 0.019 | 0.015i | 0.15 | 0.022 | 0.0078 | 0.10 | 0.021 | 0.019 | 0.021 | 0.020 | 0.0019 |
| 2 | ALC-1145-AE | 0.0008 | 0.0082 | 0.020 | 0.028 | 0.40 | 0.019 | 0.022i | 0.031 | 0.030 | 0.0080 | 0.10 | 0.020 | 0.031 | 0.020 | 0.030 | 0.0030 |
| 2 | ALC-1170-AN | 0.0010i | 0.0082 | 0.0325 | 0.0301 | 0.178 | 0.0196 | 0.0258i | 0.0330 | 0.029 | 0.0093 | 0.087 | 0.020 | 0.0306 | 0.020 | 0.0323 | 0.0031 |
| 2 | ALC-3002-AB | 0.0011 | 0.009 | 0.021 | 0.12 | 0.086 | 0.021 | 0.15 | 0.24 | 0.021 | 0.008 | 0.075 | 0.021 | 0.020 | 0.019 | 0.048 | 0.0020 |
| 3 | V 1301 | . | . | 0.0008 | 0.0018 | 0.024 | . | 0.26 | 0.009 | . | . | 0.075 | . | 0.0013 | . | 0.014 | . |
| 3 | V 1206 | . | . | 0.0009 | 0.0013 | 0.022 | . | 0.0018 | 0.0083 | . | . | 0.072 | . | 0.0016 | 0.0006 | 0.014 | . |
| 3 | V 1306 | . | . | 0.0006 | 0.0018 | 0.059 | . | 0.092 | 0.0014 | . | . | 0.06 | . | 0.0022 | . | 0.024 | . |
| 1 | AL 521/02 | . | . | 0.0054 | 0.0104 | 0.056 | . | 0.493 | 0.0289 | 0.0049 | . | 0.053 | . | (0.0033) | . | 0.115 | . |
| 3 | V 1204 | . | . | <0.0003 | 0.0018 | 0.018 | . | 0.0009 | 0.0011 | . | . | 0.039 | . | 0.0016 | 0.0011 | 0.015 | . |
| 1 | V 1400-2 | . | . | 0.0020 | 0.0022 | 0.0194 | 0.0049 | 0.00033 | 0.0008 | 0.0021 | 0.0005 | 0.0367 | <0.0005 | 0.00065 | 0.0010 | 0.0181 | <0.0003 |
| 3 | V 1205 | . | . | <0.0005 | 0.0013 | 0.024 | . | 0.001 | 0.0009 | . | . | 0.034 | . | 0.0014 | . | 0.0069 | 0.001 |
| 1 | 51X A1350A | . | . | 0.0024 | 0.0016 | 0.097 | 0.0135 | 0.0031 | 0.0019 | 0.0071 | (0.0007) | 0.0232 | (0.0004) | 0.0029 | 0.0042 | 0.0148 | 0.0007 |
| 3 | V 1201 | . | . | . | 0.0018 | 0.013 | . | 0.001 | 0.0004 | . | . | 0.012 | . | 0.0005 | . | 0.003 | . |
| 3 | V 1104 | <0.0001 | . | <0.001 | 0.0042 | 0.0033 | . | 0.36 | 0.0004 | <0.0005 | . | 0.0073 | . | <0.0002 | . | 0.0048 | . |
| 3 | V 1109 | <0.0001 | . | <0.001 | 0.0001 | 0.0012 | . | 0.47 | 0.0001 | <0.0005 | . | 0.0062 | . | <0.0002 | . | 0.0019 | . |
| 3 | V 1108 | . | . | . | 0.0001 | 0.001 | . | 0.26 | 0.0001 | . | . | 0.0055 | . | 0.0002 | . | 0.0007 | . |

| # | Number | Ag | As | B | Ba | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units | |
|---|--------------|-----------|---------|-----------|---------|-----------|----------|---------|----------|-----------|---------|---------|---------|-----------|---------|-------|----------------|
| 1 | AL 651/02 | . | . | . | . | . | 0.027 | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | HRT AL2015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 35 x 20 |
| 2 | AA ST2-6063 | . | . | <0.0010 | . | 0.002i | 0.0005 | 0.0005 | . | 0.001i | 0.0015 | 0.0005 | . | . | 0.0012 | c | 64 x 25 |
| 3 | AJ 025 | . | . | 0.0001 | 0.0003 | <0.0001 | . | <0.0001 | . | <0.0001 | <0.0001 | . | . | . | <0.0001 | c | 55 x 25 |
| 1 | AL 613/08 | . | 0.0020 | . | . | 0.0005 | 0.0035 | . | 0.0015 | 0.0006 | 0.0004 | 0.0012 | 0.0085 | . | . | c | 60 x 25 |
| 1 | AL 141/01 | . | . | 0.0150 | . | . | 0.0090 | . | . | . | . | . | 0.010 | . | . | c | 60 x 25 |
| 1 | ERM-EB312a | . | . | (0.00027) | . | (0.00169) | 0.00167 | . | 0.00060 | (0.00040) | . | . | . | . | 0.00111 | c | 65 x 30 |
| 1 | V 1406-2 | . | . | 0.0012 | . | <0.0002 | 0.0011 | . | 0.0002 | 0.0002 | . | <0.0005 | . | . | <0.0002 | c | 60 x 20 |
| 3 | V 1407 | . | . | . | . | 0.0002 | . | . | . | 0.0003 | . | . | . | . | . | c | 60 x 20 |
| 1 | 51X G00H 2E | . | (0.005) | . | . | 0.0031 | . | . | . | . | . | . | 0.0265 | . | . | c | 50x20 or 40x15 |
| 2 | ALC-6463-AC | . | . | . | . | 0.0033i | 0.0012 | . | . | 0.0024i | 0.0026i | 0.0048 | 0.0038 | . | 0.0047i | w | 57 x 25 |
| 1 | AL 612/02 | . | . | (0.0006) | . | . | . | . | . | . | 0.0005 | . | . | . | . | c | 60 x 25 |
| 1 | AL 741/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 1 | AL 136/03 | . | . | 0.0002 | . | (0.0002) | <0.0001 | 0.0005 | . | 0.00003 | 0.0009 | 0.0009 | 0.0016 | . | <0.0001 | c | 60 x 20 |
| 3 | AJ 006 | . | . | 0.0003 | . | . | . | 0.049 | . | . | . | . | 0.060 | . | . | c | 55 x 25 |
| 2 | AA SS-3102 | <0.0010 | <0.0010 | <0.0010 | . | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 1 | PY 67995 | . | . | . | . | . | (0.0002) | . | . | 0.0190 | . | . | . | . | . | c | 55 x 30 |
| 2 | ALC-X1120-AC | . | . | . | . | 0.0016i | 0.0012 | . | 0.0020i | 0.0021i | 0.0016 | 0.002 | 0.0019i | . | . | w | 57 x 25 |
| 2 | ALC-1145-AE | . | . | . | . | 0.0014i | 0.0011 | . | (0.0018) | 0.0019i | 0.0021i | 0.0025 | 0.0021 | . | 0.0017i | w | 57 x 25 |
| 2 | ALC-1170-AN | <0.0001 | <0.0001 | 0.0002 | <0.0001 | 0.0021i | 0.0014 | 0.00010 | <0.0001 | 0.0023i | 0.0022i | 0.0018 | 0.0022 | Mo:0.0001 | 0.0023i | w | 57 x 25 |
| 2 | ALC-3002-AB | . | . | . | . | 0.0027i | 0.0013 | . | . | 0.0018i | 0.0017i | 0.0041 | 0.0038 | . | 0.0030i | w | 57 x 25 |
| 3 | V 1301 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 1206 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 1306 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | AL 521/02 | . | . | (0.0025) | . | . | . | 0.0045 | . | . | 0.0020i | 0.0028 | . | . | . | c | 60 x 25 |
| 3 | V 1204 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | V 1400-2 | Al:[99.1] | . | <0.0002 | . | 0.00018 | 0.0010 | <0.0003 | 0.0009 | 0.00041 | 0.00025 | <0.0005 | <0.0005 | . | <0.0002 | c | 60 x 20 |
| 3 | V 1205 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | 51X A1350A | . | . | . | . | . | . | 0.0005 | . | . | . | . | . | . | . | w | ~50 x ~20 |
| 3 | V 1201 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 1104 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 1109 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 1108 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |

Ag - Silver in Aluminum

| # | Number | Ag | Bi | Co | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|-----------------|-----------|-----------|--------|--------|--------|---------|--------|--------|---------|---------|-------|----------|--------|--------|--------|----------|
| 2 | AA SS-2055 | 0.47i | <0.0005 | <0.0005 | 0.003i | 3.6i | 0.030i | 0.006i | 0.34i | 0.28i | 0.003i | <0.0005 | 0.02i | <0.0005 | 0.030i | 0.005i | 0.50i | 0.12i |
| 1 | AL 211/02 | 0.305 | 0.0019 | 0.0057 | 0.0035 | 4.01 | 0.066 | . | 0.417 | 0.461 | 0.0057 | . | 0.110 | 0.0010 | 0.236 | 0.0112 | 0.0050 | . |
| 3 | V 5102-1 | 0.11 | . | . | 0.068 | 0.28 | 0.17 | . | 1.43 | 0.17 | . | . | 0.14 | . | 0.019 | . | 4.28 | . |
| 2 | AJ 007 | 0.096 | 0.093 | 0.097 | 0.104 | 0.189 | 0.516 | 0.105 | 0.093 | 0.098 | 0.099 | 0.095 | 0.517 | 0.095 | 0.099 | 0.107 | 0.197 | 0.104 |
| 1 | AL 124/04 | 0.0190 | 0.0151 | 0.0201 | 0.0509 | 0.0533 | 0.145 | 0.0365 | 0.0558 | 0.0540 | 0.0592 | 0.0232 | 0.105 | 0.0208 | 0.0505 | 0.0449 | 0.0515 | 0.0054 |
| 1 | V 1412-1 | 0.011 | 0.0012 | 0.0030 | 0.020 | 0.095 | 0.52 | 0.0097 | 0.016 | 0.016 | 0.019 | 0.0067 | 0.26 | <0.001 | 0.019 | 0.012 | 0.019 | 0.0020 |
| 1 | AL 144/01 | 0.010 | . | . | 0.034 | 0.20 | 0.73 | . | 0.160 | 0.100 | 0.022 | 0.0060 | 0.65 | 0.0050 | 0.053 | 0.036 | 0.055 | 0.007 |
| 1 | 51X G00H 3D | 0.0079 | 0.076 | 0.0042 | 0.095 | 0.399 | 0.313 | 0.010 | 0.0077 | 0.210 | 0.0115 | 0.055 | 0.895 | 0.083 | 0.0043 | 0.0142 | 0.097 | 0.0095 |
| 1 | FY 9210 | 0.00497 | 0.00133 | 0.00187 | . | . | . | 0.00133 | . | . | 0.00089 | 0.00096 | . | 0.00186 | . | . | . | <0.00003 |
| 1 | FY 9208 | 0.00128 | <0.000005 | 0.000008 | . | . | . | 0.00436 | . | . | 0.00105 | 0.0041 | . | 0.000053 | . | . | . | 0.00193 |
| 1 | FY 9207 | 0.00058 | 0.00035 | 0.00053 | . | . | . | 0.00032 | . | . | 0.00024 | 0.00039 | . | 0.00055 | . | . | . | 0.000030 |
| 1 | FY 9209 | 0.000024 | <0.000005 | <0.000006 | . | . | . | 0.01063 | . | . | 0.00187 | 0.00002 | . | 0.000021 | . | . | . | 0.00406 |

| # | Number | As | B | Ba | Be | Ca | Cd | Ce | Hg | In | La | Li | Na | Nd | P | Sb | Sr | Units |
|---|-------------|----------|----------|--------|----------|---------|---------|----------|---------|----------|-----------|---------|----------|----------|---------|---------|---------|-----------|
| 2 | AA SS-2055 | <0.0005 | <0.0005 | . | <0.0001i | <0.0010 | <0.0005 | . | . | . | . | 1.1x | <0.0001i | . | <0.0005 | <0.0005 | <0.0005 | c 25 x 6 |
| 1 | AL 211/02 | . | (0.0003) | . | . | 0.0006 | . | . | . | . | . | 0.00002 | (0.0006) | . | 0.0020 | 0.0082 | . | c 60 x 25 |
| 3 | V 5102-1 | . | . | . | . | <0.001 | . | . | . | . | . | . | . | . | . | . | . | c 60 X 20 |
| 2 | AJ 007 | . | . | . | 0.017 | . | 0.086 | . | . | 0.095 | . | . | . | . | . | . | . | c 55 x 25 |
| 1 | AL 124/04 | . | 0.0002 | . | 0.0019 | 0.0003 | 0.0210 | 0.0451 | . | . | 0.0307 | 0.0007i | 0.0017i | . | . | 0.0252 | . | c 60 x 25 |
| 1 | V 1412-1 | . | <0.0003 | 0.0011 | 0.0004 | 0.0012 | 0.0094 | . | <0.0002 | <0.0001 | . | 0.0009 | 0.0064 | . | 0.0063 | 0.0012 | 0.0005 | c 60 x 20 |
| 1 | AL 144/01 | . | . | . | . | . | . | . | . | . | . | 0.0018i | 0.0051i | . | . | . | . | c 60 x 25 |
| 1 | 51X G00H 3D | (0.0003) | . | . | . | . | 0.0186 | . | <0.001 | . | . | . | . | . | . | 0.0025 | . | c 50 x 20 |
| 1 | FY 9210 | . | . | . | . | . | . | 0.000017 | . | 0.00194 | <0.000005 | . | . | <0.00004 | . | . | . | c 55 x 30 |
| 1 | FY 9208 | . | . | . | . | . | . | 0.00063 | . | 0.00045 | 0.00081 | . | . | 0.00066 | . | . | . | c 55 x 30 |
| 1 | FY 9207 | . | . | . | . | . | . | 0.000009 | . | 0.00012 | <0.000005 | . | . | <0.00004 | . | . | . | c 55 x 30 |
| 1 | FY 9209 | . | . | . | . | . | . | 0.00171 | . | 0.000006 | 0.00192 | . | . | 0.00206 | . | . | . | c 55 x 30 |

B - Boron in Aluminum

* ALC-6006-CAD also contains 0.0001 P, Sn, Ti, Zn and <0.0001 B, Be, Cd, Co, Ga, Ni, Sb, Sr, V, Zr

| # | Number | B | Ca | Fe | Li | Mg | Na | Pb | Si | Cr | Cu | Mn | Units |
|---|----------------|----------------|---------|--------|---------|--------|---------|--------|--------|--------|--------|--------|-----------|
| 1 | FY 217-2 | 0.00527 | 0.00224 | (0.2) | . | (0.8) | . | . | (0.1) | . | . | . | c 55 x 30 |
| 1 | FY 437-2 | 0.0028 | 0.0016 | (0.22) | 0.00109 | . | 0.0015 | . | (0.11) | . | . | . | c 55 x 30 |
| 1 | FY 437-1 | 0.0027 | 0.0016 | (0.22) | 0.00102 | . | 0.0014 | . | (0.11) | . | . | . | c 55 x 30 |
| 1 | FY 437-3 | 0.0026 | 0.0016 | (0.22) | 0.00103 | . | 0.0015 | . | (0.11) | . | . | . | c 55 x 30 |
| 1 | FY 215-1 | 0.00235 | 0.00160 | (0.2) | . | (0.8) | . | . | (0.1) | . | . | . | c 55 x 30 |
| 1 | FY 11525 | 0.0012 | . | (0.1) | . | . | . | . | (0.05) | . | . | . | c 55 x 30 |
| 1 | FY 214 | 0.00072 | 0.00060 | (0.2) | . | (0.8) | . | . | (0.1) | . | . | . | c 55 x 30 |
| 1 | FY 11524 | 0.0004 | . | (0.1) | . | . | . | . | (0.05) | . | . | . | c 55 x 30 |
| 1 | FY 436-1 | 0.00011 | <0.0001 | (0.21) | 0.0112 | . | 0.0095 | . | (0.11) | . | . | . | c 55 x 30 |
| 1 | FY 212 | 0.00011 | 0.00018 | (0.2) | . | (0.8) | . | . | (0.1) | . | . | . | c 55 x 30 |
| 2 | ALC-6006-CAD * | 0.0001 | <0.0001 | (0.18) | <0.0001 | (0.69) | <0.0001 | 0.0001 | (0.69) | (0.08) | (0.14) | (0.15) | w 57 x 25 |

B - Boron in Aluminum

wrought 64 mm Ø x 25 mm

| Number | Material | B |
|----------|----------|-----------------|
| AA BN-1 | 1075 | 0.0005 - 0.0034 |
| AA BN-2 | 1075 | 0.0035 - 0.0074 |
| AA BN-3 | 1075 | 0.0075 - 0.014 |
| AA BN-4 | 1075 | 0.015 - 0.025 |
| AA BN-5 | 1075 | 0.026 - 0.034 |
| AA BN-11 | 7.5% Si | 0.0005 - 0.0034 |
| AA BN-12 | 7.5% Si | 0.0035 - 0.0074 |
| AA BN-13 | 7.5% Si | 0.0075 - 0.014 |
| AA BN-14 | 7.5% Si | 0.015 - 0.025 |

Be - Beryllium

| # | Number | Material | Be | Units |
|---|---------|----------|---------------|-----------|
| 2 | AA BE-1 | 1100 | 0.0005-0.0025 | c 64 x 25 |
| 2 | AA BE-2 | 1100 | 0.0035-0.0065 | c 64 x 25 |

RM**Co - Cobalt**

| Number | Material | Co | Units |
|---------|----------|--------|-----------|
| AA CO-1 | 1075 | 0.001i | c 64 x 25 |
| AA CO-2 | 1075 | 0.007i | c 64 x 25 |

Cd - Cadmium and Pb - Lead

| # | Number | Material | Cd | Pb | Units |
|---|----------|----------|-----------------|---------|-----------|
| 2 | AA CD-4 | 1075 | 0.035 - 0.060 | . | c 64 x 25 |
| 2 | AA CD-3 | 1075 | 0.015 - 0.034 | . | c 64 x 25 |
| 2 | AA CD-2 | 1075 | 0.0045 - 0.010 | . | c 64 x 25 |
| 2 | AA CD-1 | 1075 | 0.0005 - 0.0044 | . | c 64 x 25 |
| 1 | SRM 1711 | 3004 | 0.002090 | 0.00639 | 63 x 19 |

RM Ca - Calcium

AA: cast, 64 mm Ø x 25 mm ALC: wrought, 57 mm Ø x 25 mm

| Number | Material | Ca | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | Zn |
|--------------|----------|-----------------|--------|-------|-------|------|------|------|-------|-------|-------|------|-------|--------|------|
| ALC-B8050-AA | 7104 | 4.01 | (0.02) | 0.025 | 0.040 | 0.27 | 0.02 | 0.12 | 0.044 | 0.031 | 0.029 | 0.15 | 0.025 | (0.02) | 4.10 |
| AA CA-1 | 1075 | 0.0005 - 0.0034 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-2 | 1075 | 0.0035 - 0.0084 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-3 | 1075 | 0.0084 - 0.024 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-4 | 1075 | 0.025 - 0.060 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-11 | 7.5% Si | 0.0005 - 0.0024 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-12 | 7.5% Si | 0.0025 - 0.0064 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-13 | 7.5% Si | 0.0065 - 0.012 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-14 | 7.5% Si | 0.013 - 0.020 | . | . | . | . | . | . | . | . | . | . | . | . | . |
| AA CA-15 | 7.5% Si | 0.021 - 0.040 | . | . | . | . | . | . | . | . | . | . | . | . | . |

CRM Er - Erbium

55 x 35

| Number | Cu | Er | Fe | Mg | Mn | Ni | Si | Ti | Zn | Zr |
|-------------|-------|-------|-------|------|-------|--------|-------|--------|------|-------|
| 58A ST23397 | 2.21 | 0.323 | 0.025 | 3.66 | 0.019 | 0.012 | 0.017 | 0.0015 | 4.41 | 0.011 |
| 58A ST23398 | 1.56 | 0.243 | 0.067 | 2.88 | 0.179 | 0.094 | 0.064 | 0.0074 | 6.7 | 0.052 |
| 58A ST23400 | 0.562 | 0.177 | 0.087 | 2.65 | 0.356 | 0.03 | 0.052 | 0.031 | 7.7 | 0.155 |
| 58A ST23399 | 1.43 | 0.163 | 0.097 | 2.4 | 0.124 | 0.0047 | 0.024 | 0.023 | 6.19 | 0.077 |
| 58A ST23401 | 0.926 | 0.098 | 0.157 | 1.73 | 0.066 | 0.047 | 0.095 | 0.083 | 7.45 | 0.157 |
| 58A ST23395 | 1.18 | 0.092 | 0.119 | 2.34 | 0.097 | 0.0062 | 0.037 | 0.029 | 5.98 | 0.066 |
| 58A ST23396 | 0.275 | 0.026 | 0.255 | 1.38 | 0.601 | 0.152 | 0.138 | 0.115 | 8.96 | 0.225 |

Hg - Mercury in Aluminum - also see ROHS / WEEE on page 54

cast, 55 x 30

| # | Number | As | Ca | Cd | Cr | Cu | Fe | Hg | Mg | Mn | Si | V | Zr | B | Be | Bi | Co | Li | Mo | Na | Pb | Sb | Se |
|---|---------|-----------|-----------|---------|----------|----------|--------|----------------|-------|----------|--------|---------|---------|---------|---------|---------|---------|------------|---------|-----------|----------|---------|----------|
| 1 | PY 4028 | 0.00032 | . | <0.0001 | (0.0018) | (0.0039) | (0.62) | 0.0142 | . | (0.1056) | (0.7) | . | . | . | . | . | . | . | . | . | 0.00021 | . | . |
| 1 | PY 4260 | 0.00006 | . | <0.0001 | (0.16) | . | (0.38) | 0.0138 | . | (0.076) | (1.11) | . | . | . | . | . | . | . | . | . | <0.00025 | . | . |
| 1 | PY 201 | (0.0037) | (0.0007) | 0.0117 | . | . | (0.31) | 0.0137 | (4.6) | (0.38) | (0.15) | 0.00040 | . | 0.0037 | . | . | 0.0095 | 0.0094 | 0.0075 | . | . | 0.0093 | . |
| 1 | PY 152 | (0.0213) | 0.00011 | 0.0106 | . | (0.16) | (0.3) | 0.0064 | (1.2) | (1.3) | (0.21) | 0.00338 | . | . | . | 0.00021 | 0.0099 | 0.00103 | . | . | 0.0102 | 0.0098 | <0.00002 |
| 1 | PY 4029 | 0.028 | . | 0.00074 | (0.0002) | (0.0039) | (0.79) | 0.0030 | . | (0.0552) | (0.72) | . | . | . | . | . | . | . | . | . | 0.00035 | . | . |
| 1 | PY 4190 | 0.0084 | . | 0.0022 | (0.17) | . | (0.79) | 0.0024 | . | (0.031) | (1.2) | . | . | . | . | . | . | . | . | . | . | 0.00176 | . |
| 1 | PY 200 | 0.0031 | (0.00062) | 0.00226 | . | . | (0.26) | 0.00232 | (4.8) | (0.36) | (0.14) | 0.00113 | . | 0.00162 | . | . | 0.00212 | 0.00141 | 0.00010 | . | . | 0.00146 | . |
| 1 | PY 174 | 0.0068 | (0.00052) | . | . | . | (0.26) | 0.00165 | . | (0.12) | . | (0.005) | 0.0033 | 0.00043 | . | 0.00135 | 0.00212 | (0.00039) | 0.0027 | (0.00021) | . | 0.0043 | 0.0011 |
| 1 | PY 151 | (0.0175) | 0.00005 | 0.0021 | . | (0.16) | (0.3) | 0.00142 | (1.2) | (1.3) | (0.21) | 0.00158 | (0.005) | 0.0033 | 0.00043 | 0.00365 | 0.00201 | 0.00060 | . | . | <0.0002 | 0.0016 | <0.00002 |
| 1 | PY 4018 | 0.0061 | . | 0.00252 | (0.0019) | (0.0069) | (1.02) | 0.00077 | . | (0.0231) | (0.74) | . | . | . | . | . | . | . | . | . | 0.0020 | . | . |
| 1 | PY 4270 | 0.0024 | . | 0.00057 | (0.17) | . | (0.59) | 0.00060 | . | (0.056) | (1.11) | . | . | . | . | . | . | . | . | . | . | 0.00063 | . |
| 1 | PY 138 | (0.0004) | 0.00035 | 0.00113 | . | (0.15) | (0.3) | 0.00043 | (1.2) | (1.3) | (0.22) | 0.00104 | . | . | . | . | 0.00153 | 0.00058 | 0.00006 | . | . | 0.00125 | 0.00052 |
| 1 | PY 202 | 0.0006 | (0.00004) | 0.00013 | . | . | (0.28) | 0.00167 | (4.6) | (0.37) | (0.13) | 0.00193 | . | 0.00013 | . | . | 0.00015 | 0.000009 | 0.00014 | . | . | 0.00009 | . |
| 1 | PY 4017 | 0.0257 | . | 0.0114 | (0.0022) | (0.0094) | (1.24) | 0.00015 | . | (0.0077) | (0.73) | . | . | . | . | . | . | . | . | . | . | 0.0121 | . |
| 1 | PY 137 | (0.00002) | 0.00014 | 0.00011 | . | (0.15) | (0.3) | 0.00010 | (1.2) | (1.3) | (0.21) | 0.00012 | . | . | . | 0.00027 | 0.00017 | 0.00002 | . | . | <0.0002 | 0.00009 | <0.00002 |
| 1 | PY 172 | 0.000007 | (0.00022) | . | . | . | (0.26) | 0.00010 | . | . | (0.12) | . | 0.00026 | 0.00021 | 0.00002 | 0.0010 | . | (0.000006) | 0.00015 | <0.00002 | . | 0.00021 | 0.00010 |
| 1 | PY 4200 | 0.0359 | . | 0.0115 | (0.18) | . | (1.07) | 0.00002 | . | (0.014) | (1.2) | . | . | . | . | . | . | . | . | . | 0.0107 | . | . |

Ga - Gallium and Sb - Antimony in Aluminum

cast, 55 x 30

| # | Number | As | B | Ca | Cd | Co | Cr | Cu | Fe | Ga | Hg | Li | Mg | Mn | Mo | Ni | Pb | Sb | Si | Sn | Ti | V | Zn | Zr |
|---|----------|----------|---------|-----------|---------|---------|-------|-------|--------|--------|----------|---------|--------|--------|--------|-------|--------|-----------------|--------|--------|--------|----------|--------|-------|
| 1 | PY 9704 | . | . | . | . | . | . | . | (0.04) | 0.0395 | . | . | (0.42) | . | . | . | . | 0.0194 | (6.9) | . | (0.12) | . | . | . |
| 1 | PY 02002 | . | 0.0009 | . | . | . | (0.2) | (5.5) | (0.3) | . | . | . | (2) | (0.1) | . | (3.6) | 0.0042 | 0.0166 | (9.2) | 0.0043 | (0.1) | (0.1) | 0.0036 | 0.057 |
| 1 | PY 9714 | . | . | . | . | . | . | . | (0.04) | 0.0409 | . | . | (0.3) | . | . | . | . | 0.0148 | (9.2) | . | (0.11) | . | . | . |
| 1 | PY 9709 | . | . | . | . | . | . | . | (0.08) | 0.0168 | . | . | (0.4) | . | . | . | . | 0.0115 | (7.1) | . | (0.1) | . | . | . |
| 1 | PY 9718 | . | . | . | . | . | . | . | (0.08) | 0.0166 | . | . | (0.31) | . | . | . | . | 0.0115 | (9.2) | . | (0.1) | . | . | . |
| 1 | PY 9711 | . | . | . | . | . | . | . | (0.16) | 0.0091 | . | . | (0.39) | . | . | . | . | 0.0063 | (6.9) | . | (0.1) | . | . | . |
| 1 | PY 9720 | . | . | . | . | . | . | . | (0.11) | 0.0089 | . | . | (0.26) | . | . | . | . | 0.0060 | (9.4) | . | (0.1) | . | . | . |
| 1 | PY 9706 | . | . | . | . | . | . | . | (0.2) | 0.0035 | . | . | (0.39) | . | . | . | . | 0.0046 | (7) | . | (0.13) | . | . | . |
| 1 | PY 9716 | . | . | . | . | . | . | . | (0.18) | 0.0032 | . | . | (0.32) | . | . | . | . | 0.0010 | (9.6) | . | (0.15) | . | . | . |
| 1 | PY 203 | (0.0037) | 0.00009 | (0.00024) | 0.00003 | 0.00051 | . | . | (0.28) | . | <0.00005 | 0.00006 | (4.8) | (0.37) | 0.0001 | . | . | 0.000013 | (0.12) | . | . | 0.000024 | . | . |

Na - Sodium in Aluminum

* for PY 932, one may choose high, mid, or low certified values

AA: RM, cast, 64 x 25

PY: CRM, cast, 55 x 30

| Number | B | Bi | Ca | Cu | Fe | Mg | Mn | Na | Ni | Pb | Si | Sr | Ti |
|-----------|-----------|----------|---------|--------|-------|-------|--------|---------------------------|----|---------|-------|---------|-------|
| AA NA-5 | 1075 type | . | . | . | . | . | . | 0.021 - 0.030 | . | . | . | . | . |
| AA NA-15 | ~7.5% Si | . | . | . | . | . | . | 0.021 - 0.030 | . | . | . | . | . |
| AA NA-4 | 1075 type | . | . | . | . | . | . | 0.013 - 0.020 | . | . | . | . | . |
| AA NA-14 | ~7.5% Si | . | . | . | . | . | . | 0.013 - 0.020 | . | . | . | . | . |
| PY 932 * | . | . | 0.0065i | . | (0.1) | (0.4) | . | 0.0090i | . | . | (7) | 0.0175i | (0.1) |
| AA NA-3 | 1075 type | . | . | . | . | . | . | 0.0065 - 0.012 | . | . | . | . | . |
| AA NA-13 | ~7.5% Si | . | . | . | . | . | . | 0.0065 - 0.012 | . | . | . | . | . |
| PY 1950-2 | . | . | 0.01230 | (1.4) | (0.1) | (1.3) | . | 0.00552 (1.1) | . | . | (12) | . | (0.1) |
| PY 1950-1 | . | . | 0.01230 | (1.4) | (0.1) | (1.3) | . | 0.00510 (1.1) | . | . | (12) | . | (0.1) |
| PY 6083 | 0.00899 | . | . | . | (0.2) | (0.5) | . | 0.00369 | . | 0.00660 | (0.5) | . | . |
| PY 9913 | . | . | 0.00311 | . | (0.1) | (0.4) | . | 0.00355 | . | . | (7) | 0.0454 | (0.1) |
| PY 1949-2 | . | . | 0.00755 | (1.5) | (0.1) | (1.2) | . | 0.00320 (1.1) | . | . | (12) | . | (0.1) |
| PY 1949-1 | . | . | 0.00735 | (1.5) | (0.1) | (1.2) | . | 0.00292 (1.1) | . | . | (12) | . | (0.1) |
| AA NA-2 | 1075 type | . | . | . | . | . | . | 0.0025 - 0.0064 | . | . | . | . | . |
| AA NA-12 | ~7.5% Si | . | . | . | . | . | . | 0.0025 - 0.0064 | . | . | . | . | . |
| PY 006-1 | . | . | 0.00890 | (1) | (0.1) | (1.2) | . | 0.00245 (1) | . | . | (18) | . | (0.1) |
| PY 233 | . | 0.00459 | . | . | (0.2) | (4.6) | (0.15) | 0.00202 | . | . | (0.1) | . | . |
| PY 1225 | 0.00260 | . | . | (0.15) | (0.3) | (1) | (1) | 0.00144 | . | . | (0.2) | . | . |
| PY 6082 | 0.00319 | . | . | . | (0.2) | (0.5) | . | 0.00134 | . | 0.00370 | (0.5) | . | . |
| PY 1948 | . | . | 0.00350 | (1.4) | (0.1) | (1.2) | . | 0.00126 (1.1) | . | . | (12) | . | (0.1) |
| PY 232 | . | 0.00198 | . | . | (0.2) | (4.6) | (0.15) | 0.00119 | . | . | (0.1) | . | . |
| PY 005-1 | . | . | 0.00345 | (1) | (0.1) | (1.2) | . | 0.00086 (1) | . | . | (18) | . | (0.1) |
| PY 9826 | . | . | . | (0.15) | (0.3) | (0.9) | (1) | 0.00081 | . | . | (0.3) | . | . |
| AA NA-1 | 1075 type | . | . | . | . | . | . | 0.0005 - 0.0024 | . | . | . | . | . |
| AA NA-11 | ~7.5% Si | . | . | . | . | . | . | 0.0005 - 0.0024 | . | . | . | . | . |
| PY 8035 | . | . | 0.00057 | . | (0.1) | (0.4) | . | <0.0002 | . | . | (7) | 0.0801 | (0.1) |
| PY 975 | 0.0022 | . | . | (0.15) | (0.3) | (1) | (1) | 0.00018 | . | . | (0.2) | . | . |
| PY 004 | . | . | 0.00019 | (1) | (0.1) | (1.2) | (1) | 0.00003 (1) | . | . | (18) | . | (0.1) |
| PY 231 | . | <0.00001 | . | . | (0.2) | (4.6) | (0.15) | 0.00002 | . | . | (0.1) | . | . |
| PY 1227 | 0.00048 | . | . | (0.15) | (0.3) | (0.9) | (1) | 0.000019 | . | . | (0.2) | . | . |
| PY 1947 | . | . | 0.00010 | (1.4) | (0.1) | (1.2) | . | <0.000005 (1.1) | . | . | (12) | . | (0.1) |

P - Phosphorus in Aluminum

cast, 55 x 30

| # | Number | Cu | Fe | Mg | Ni | Si | Ti | Ca | Na | P | Sr |
|---|-----------|-------|--------|-------|-------|--------|--------|---------|----------|----------------|--------|
| 1 | PY 9507 | (1.2) | (0.5) | (1) | (0.9) | (12) | (0.1) | . | . | 0.0165 | . |
| 1 | PY 9506 | (1.2) | (0.5) | (1) | (0.9) | (12) | (0.1) | . | . | 0.0160 | . |
| 1 | PY 8041 | . | (0.14) | (0.4) | . | (9.5) | (0.09) | 0.00090 | 0.00053 | 0.0033 | . |
| 1 | PY 9813-2 | (1.4) | (0.2) | (1.3) | (1.1) | (11) | (0.1) | . | . | 0.0031 | 0.0034 |
| 1 | PY 6079 | (3) | (0.1) | (0.3) | . | (5) | (0.1) | 0.00037 | 0.000025 | 0.00229 | . |
| 1 | PY 6052 | . | (0.1) | (0.3) | . | (7.1) | (0.1) | . | . | 0.00210 | . |
| 1 | PY 977 | . | (0.2) | (0.4) | . | (9.5) | (0.1) | 0.0022 | 0.0009 | 0.0017 | . |
| 1 | PY 6051 | . | (0.1) | (0.3) | . | (7) | (0.1) | . | . | 0.00118 | . |
| 1 | PY 6078 | (3) | (0.1) | (0.3) | . | (5) | (0.1) | 0.00176 | 0.00189 | 0.00114 | . |
| 1 | PY 6075 | (3) | (0.1) | (0.3) | . | (5) | (0.1) | 0.00973 | 0.00939 | 0.00038 | . |
| 1 | PY 6076-1 | (3) | (0.1) | (0.3) | . | (5) | (0.1) | 0.00595 | 0.00480 | 0.00034 | . |
| 1 | PY 6076-2 | (3) | (0.1) | (0.3) | . | (5) | (0.1) | 0.00595 | 0.00505 | 0.00034 | . |
| 1 | PY 8045 | . | (0.2) | (0.4) | . | (9.8) | (0.09) | 0.00887 | 0.00456 | 0.00027 | . |
| 1 | PY 8054-1 | . | (0.11) | (0.4) | . | (9.7) | (0.1) | 0.01425 | 0.00806 | 0.00020 | . |
| 1 | PY 8054-2 | . | (0.11) | (0.4) | . | (9.7) | (0.1) | 0.01442 | 0.00869 | 0.00020 | . |
| 1 | PY 6049 | . | (0.1) | (0.3) | . | (7) | (0.1) | . | . | 0.00004 | . |
| 1 | PY 6084 | . | (0.04) | . | . | (0.04) | . | . | . | 0.00002 | . |

RM

Ni - Nickel

| Number | Ni | Form | Units |
|---------|------|------|-----------------|
| AA NI-5 | 1.5i | cast | 64 mm Ø x 25 mm |
| AA NI-4 | 1.0i | cast | 64 mm Ø x 25 mm |

RM

P - Phosphorus

cast 64 mm Ø x 25 mm

| Number | Material | P |
|--------|----------|--------|
| AA P-1 | 10.5% Si | 0.005i |

RM

Sb - Antimony

cast 64 mm Ø x 25 mm

| Number | Material | Sb |
|----------|----------|--------|
| AA AN-4 | 1075 | 0.09i |
| AA AN-3 | 1075 | 0.04i |
| AA AN-2 | 1075 | 0.015i |
| AA AN-1 | 1075 | 0.005i |
| AA AN-12 | 356 | 0.10i |
| AA AN-11 | 356 | 0.05i |

RM

Ti - Titanium

| Number | Ti | Form | Units |
|---------|-------|------|-----------------|
| AA TI-3 | 0.30i | cast | 64 mm Ø x 25 mm |
| AA TI-2 | 0.15i | cast | 64 mm Ø x 25 mm |

RM

Zr - Zirconium

cast 64 mm Ø x 25 mm

| Number | Material | Zr |
|----------|----------|----------------|
| AA ZR-15 | 6151 | 0.26 |
| AA ZR-14 | 6151 | 0.16i |
| AA ZR-13 | 6151 | 0.08i |
| AA ZR-3 | 1050 | 0.045 - 0.070 |
| AA ZR-2 | 1050 | 0.015 - 0.044 |
| AA ZR-11 | 6151 | 0.01i |
| AA ZR-1 | 1050 | 0.0035 - 0.014 |

Sn Alloys

| # | Number | Be | Bi | Ca | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|---------|---------|---------|---------|-------|-------|--------|---------|--------|--------|---------|-------|---------------|--------|--------|---------|---------|
| 2 | AA SS-850 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 1.1i | 0.40 | 0.012 | <0.0050 | 0.05i | 1.1i | <0.0030 | 0.50 | 6.3i | 0.12i | 0.01i | <0.0050 | <0.0030 |
| 2 | AA SS-851 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 1.0i | 0.45 | 0.015 | 0.03i | 0.05i | 0.50 | <0.0030 | 2.5i | 6.3i | 0.08i | 0.01i | 0.03i | <0.0030 |
| 2 | AA SS-852 | <0.0010 | <0.0010 | <0.0010 | <0.0050 | 2.0i | 0.35 | 0.02i | 0.84 | 0.05i | 1.2i | <0.0030 | 0.22i | 6.3i | 0.04i | 0.01i | 0.05i | <0.0030 |
| 1 | V 4212-1 | . | . | 0.0002 | 0.0057 | 2.93 | 0.214 | 0.014 | 0.72 | 0.019 | 0.059 | 0.053 | 0.076 | 4.03 | 0.15 | 0.0057 | 0.0044 | 0.0019 |
| 1 | V 4211-1 | . | . | 0.0010 | 0.017 | 3.20 | 0.157 | 0.0089 | 0.88 | 0.037 | 0.027 | 0.026 | 0.18 | 3.67 | 0.076 | 0.0058 | 0.027 | 0.0026 |
| 1 | V 4213-1 | . | . | 0.0021 | 0.042 | 3.46 | 0.10 | 0.0040 | 1.06 | 0.070 | 0.0050 | 0.0036 | 0.32 | 3.41 | 0.0093 | 0.0051 | 0.055 | 0.0053 |
| 1 | 511X G6012A | 0.0110 | 0.701 | . | 0.0223 | 0.351 | 0.71 | . | 0.712 | 0.424 | 0.048 | 0.211 | 0.768 | 1.88 | 0.197 | . | 0.060 | 0.0480 |
| 1 | V 2210-1 | . | 0.41 | . | 0.17 | 0.093 | 0.35 | 0.0059 | 0.88 | 0.60 | 0.0037 | 0.046 | 1.07 | 1.21 | 0.10 | 0.0061 | 0.19 | . |
| 1 | 511X G6023A | 0.0020 | 0.353 | . | 0.0054 | 0.451 | 0.51 | . | 0.512 | 0.556 | 0.036 | 0.0110 | 1.21 | 1.037 | 0.0117 | . | 0.0260 | 0.0110 |
| 2 | AA KA-213 | . | . | . | <0.0050 | 7.0i | 1.0i | . | 0.05i | 0.30i | 0.20i | . | 2.0i | 0.55 | 0.05i | . | 1.0i | . |
| 1 | 511X G6262A | 0.0011 | 0.444 | . | 0.121 | 0.267 | 0.58 | . | 0.881 | 0.163 | 0.028 | 0.0081 | 0.649 | 0.539 | 0.045 | . | 0.198 | 0.0051 |
| 1 | 55X G900J 1F | 0.0011 | 0.071 | . | 0.0012 | 0.91 | 0.549 | . | 0.966 | 0.0133 | 0.0048 | 0.202 | 0.127 | 0.348 | 0.0056 | 0.0108 | 0.152 | <0.0236 |
| 1 | V 3043-4 | . | 0.0029 | 0.010 | 0.091 | 2.86 | 0.78 | 0.016 | 0.64 | 0.55 | 0.65 | 0.20 | 5.56 | 0.34 | 0.16 | 0.011 | 0.77 | 0.0015 |
| 1 | AL 473/02 | . | 0.0020 | 0.013 | 0.096 | 0.194 | 0.008 | . | 1.08 | 0.062 | 1.20 | 0.086 | 19.06 | 0.29 | 0.059 | 0.020 | 0.51 | 0.0076 |
| 1 | 54X G13H 1N | 0.0078 | <0.001 | <0.002 | 0.062 | 1.87 | 0.801 | . | 2.89 | 0.0137 | 1.83 | 0.240 | 8.91 | 0.260 | 0.112 | . | 0.37 | <0.005 |
| 1 | 55X G26H 4D | . | (0.025) | . | 0.0623 | 3.72 | 0.511 | . | 1.64 | 0.165 | 0.909 | 0.120 | 10.37 | 0.234 | 0.304 | 0.0189 | 0.286 | . |
| 1 | 57X G12H 2C | . | . | . | 0.0148 | 7.96 | 1.021 | . | 0.336 | 0.0900 | 0.309 | 0.12 | 2.79 | 0.202 | 0.0081 | 0.0027 | 0.999 | 0.0111 |
| 2 | IMI 2WM1 | . | . | . | <0.005 | 1.69 | 0.26 | . | 0.005 | 0.60 | 0.39 | 0.21 | 8.90 | 0.20 | 0.20 | . | 2.42 | . |
| 1 | V 3045-3 | 0.00020 | 0.0020 | 0.00509 | 0.0110 | 3.12 | 0.804 | 0.0126 | 0.886 | 0.583 | 0.389 | 0.162 | 10.80 | 0.1970 | 0.245 | 0.0151 | 0.490 | 0.00142 |
| 2 | 55X G900J 3F | . | . | . | 0.25 | 0.41 | 0.29 | . | 0.38 | 0.56 | 0.21 | 0.14 | 0.82 | 0.14 | 0.16 | . | 0.39 | . |
| 1 | 55X G02D 10L | 0.0389 | . | . | 0.128 | 4.59 | 0.975 | . | 0.0206 | 0.0524 | 0.645 | 0.022 | 7.33 | 0.138 | 0.0302 | 0.0341 | 2.77 | . |

| # | Number | Ag | B | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|--------------------|---------|-----------|---------|---------|---------|-----------|-----------|---------|---------|---------|---------|------------------|
| 2 | AA SS-850 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | AA SS-851 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | AA SS-852 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 1 | V 4212-1 | . | 0.0015 | 0.0009 | 0.0012 | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | V 4211-1 | . | <0.0005 | 0.0026 | 0.0013 | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | V 4213-1 | . | <0.0005 | 0.0050 | 0.0021 | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | 511X G6012A | . | . | . | . | . | . | . | . | . | . | . | c 50 x ~17 |
| 1 | V 2210-1 | . | 0.0003 | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | 511X G6023A | . | . | . | . | . | . | . | . | . | . | . | c 50 x 17 |
| 2 | AA KA-213 | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | 511X G6262A | . | . | . | . | . | . | . | . | . | . | . | c 50 x 17 |
| 1 | 55X G900J 1F | . | . | . | . | . | . | . | . | . | . | . | c 50 x 15 |
| 1 | V 3043-4 | . | <0.0003 | 0.0013 | . | . | . | . | 0.0022 | <0.0005 | . | 0.093 | c 60 x 20 |
| 1 | AL 473/02 | . | . | . | . | . | . | . | 0.0043 | . | . | . | w 60 x 25 |
| 1 | 54X G13H 1N | . | . | . | 0.0051 | . | . | . | . | <0.005 | . | <0.001 | c 50x17 or 40x13 |
| 1 | 55X G26H 4D | . | . | . | . | . | . | . | . | . | . | . | c 40 x 15 |
| 1 | 57X G12H 2C | . | (0.003) | 0.0025 | 0.0391 | . | . | . | . | . | . | . | c 50 x 15 |
| 2 | IMI 2WM1 | . | . | . | . | . | . | . | . | . | . | . | c 58 x 7 |
| 1 | V 3045-3 Al:[82.2] | . | (0.00050) | 0.00094 | 0.00311 | 0.00060 | (0.00020) | (0.00020) | 0.00044 | 0.00010 | 0.0477 | . | c 60 x 20 |
| 2 | 55X G900J 3F | . | . | . | 0.070 | . | . | . | . | (0.029) | . | . | c ~40 x ~15 |
| 1 | 55X G02D 10L | . | . | 0.0012 | 0.0544 | . | . | . | . | 0.0086 | . | . | c 50 x ~15 |

Cu Alloys, chart 2 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Ge | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|---------|---------|-------------|--------|--------|--------|--------|---------|--------|---------|--------|----------|--------|--------|--------|---------|
| 2 | AA CU-3 | . | . | . | 4.51 | 0.25i | . | . | . | <0.0050 | . | . | 0.15i | . | . | . | . | . |
| 2 | AA SS-295 | <0.0005 | <0.0010 | <0.0050 | 4.51 | 0.70 | 0.015 | . | 0.05i | 0.12i | 0.05i | <0.0030 | 0.90 | 0.003i | 0.12i | 0.01i | 0.10i | <0.0030 |
| 1 | 56X A201.1A | . | . | 0.0029 | 4.49 | 0.089 | . | . | 0.198 | 0.310 | 0.0066 | 0.0020 | 0.193 | (0.0023) | 0.132 | . | 0.0113 | . |
| 2 | AA SS-201 | . | 0.0002 | 0.0004 | 4.49 | 0.068 | 0.020 | . | 0.249 | 0.325 | 0.0054 | 0.0010 | 0.0400 | 0.0060 | 0.244 | 0.0139 | 0.0051 | 0.0010 |
| 3 | V 4502 | . | . | 0.001 | 4.49 | 0.31 | . | . | 0.061 | 0.22 | 0.0015 | 0.004 | 0.08 | 0.004 | 0.012 | . | 0.13 | 0.0015 |
| 3 | V 4503-2 | . | . | 0.031 | 4.47 | 0.17 | . | . | 0.15 | 0.074 | 0.003 | 0.003 | 0.235 | 0.001 | 0.15 | . | 0.074 | . |
| 1 | 56X G2014A | . | 0.0013 | 0.0766 | 4.41 | 0.243 | . | . | 0.453 | 0.572 | 0.0070 | 0.0110 | 0.611 | (0.0047) | 0.0244 | . | 0.195 | 0.135 |
| 1 | AL 212/02 | . | . | 0.0055 | 4.40 | 0.088 | . | . | 0.169 | 0.153 | 0.0084 | 0.0027 | 0.064 | 0.0020 | 0.265 | 0.0079 | 0.0095 | 0.0025 |
| 1 | AL 232/02 | . | . | 0.080 | 4.28 | 0.501 | . | . | 0.90 | 0.81 | 0.020 | 0.90 | 0.395 | . | 0.031 | . | 0.102 | . |
| 2 | ALC-2017-AC | 0.0012 | 0.019 | 0.017 | 4.24 | 0.41 | 0.020 | . | 0.75 | 0.63 | 0.034 | 0.015 | 0.57 | 0.015 | 0.018 | 0.022 | 0.015 | 0.0026 |
| 1 | AL 242/01 | . | . | 0.032 | 4.13 | 0.13 | . | . | 0.25 | 0.031 | 0.011 | . | 0.10 | . | 0.20 | . | 0.031 | . |
| 3 | V 4004-1 | . | . | 0.002 | 4.10 | 0.25 | . | . | 0.94 | 0.34 | 0.002 | 0.0020 | 0.11 | . | 0.012 | . | 0.070 | 0.20 |
| 2 | AA SS-2017 | <0.0005 | <0.0010 | 0.05i | 4.01 | 0.45 | 0.02i | . | 0.60 | 0.60 | 0.03i | <0.0030 | 0.60 | <0.0010 | 0.03i | 0.01i | 0.07i | <0.0030 |
| 3 | AJ 012 | . | . | 0.022 | 4.05 | 0.567 | . | . | 0.374 | 0.703 | . | . | 0.597 | . | 0.014 | . | 0.057 | . |
| 2 | HRT AL2014 | . | . | 0.04 | 3.92 | 0.57 | . | . | 0.59 | 0.53 | 0.017 | 0.017 | 0.57 | . | 0.036 | . | 0.072 | 0.002 |
| 3 | V 4504 | . | . | 0.0005 | 3.85 | 0.083 | . | . | 0.30 | 0.05 | 0.001 | 0.001 | 0.13 | <0.001 | 0.053 | . | 0.012 | . |
| 1 | PY 960 | 0.0022 | . | 0.0630 | 3.76 | 0.3200 | . | . | 0.80 | 0.506 | 0.0310 | 0.0286 | 0.586 | 0.0248 | 0.0374 | . | 0.0892 | 0.0312 |
| 1 | PY 268 | 0.0021 | . | 0.0099 | 3.65 | 0.0030 | . | 0.3980 | 0.0003 | 0.0495 | 0.0488 | 0.0050 | 0.0490 | 0.0490 | 0.2310 | 0.0008 | 0.0010 | <0.0005 |
| 2 | AA WA-2017 | . | . | 0.02i | 3.51 | 0.65 | 0.02i | . | 0.75 | 0.40 | 0.06i | . | 0.75 | . | 0.05i | 0.01i | 0.03i | . |
| 1 | AL 241/01 | . | . | 0.010 | 3.38 | 0.100 | . | . | 0.10 | 0.10 | . | . | 0.075 | . | 0.11 | . | 0.012 | . |
| 1 | V 3042-4 | . | 0.0040 | 0.142 | 3.00 | 0.932 | 0.0164 | . | 0.742 | 0.529 | 0.400 | 0.169 | 3.62 | 0.177 | 0.153 | 0.0195 | 1.099 | 0.00538 |
| 2 | AA SS-2117 | <0.0005 | <0.0010 | 0.03i | 2.61 | 0.40 | 0.020 | . | 0.30 | 0.05i | 0.03i | <0.0030 | 0.50 | <0.0010 | 0.02i | 0.01i | 0.05i | <0.0030 |
| 2 | AA CU-2 | . | . | . | 2.51 | 0.25i | . | . | . | <0.0050 | . | . | 0.15i | . | . | . | . | . |
| 2 | AA ST2-2000 | 0.0005 | 0.001i | 0.05i | 2.51 | 0.45 | 0.02i | . | 0.50 | 0.50 | 0.01i | 0.003i | 0.50 | 0.001i | 0.03i | 0.01i | 0.15i | 0.001i |
| 1 | AL 222/01 | . | . | 0.020 | 2.51 | 0.31 | . | . | 0.64 | 0.42 | 0.025 | . | 0.40 | . | 0.024 | . | 0.030 | . |
| 2 | ALC-16S-AQ | 0.0010 | 0.028 | 0.028 | 2.37 | 0.29 | 0.018 | . | 0.49 | 0.25 | 0.029 | 0.029 | 0.26 | 0.032 | 0.03 | 0.015 | 0.05 | 0.03 |
| 1 | AL 221/02 | . | . | 0.030 | 1.37 | 0.21 | . | . | 0.41 | 0.20 | 0.030 | . | 0.15 | . | 0.058 | . | 0.0095 | . |
| 2 | AA CU-1 | . | . | . | 1.01 | 0.25i | . | . | . | <0.0050 | . | . | 0.15i | . | . | . | . | . |
| 2 | PY 3977-2 | 0.0059 | . | 0.01 | 1 | 0.11 | . | . | 0.92 | 0.02 | 0.01 | 0.05 | 0.07 | . | 0.01 | . | 0.02 | . |
| 2 | ALC-6111-AA | 0.0036 | 0.015 | 0.014 | 0.96 | 0.18 | 0.028 | . | 0.46 | 0.17 | 0.020 | 0.016 | 0.73 | 0.016 | 0.032 | 0.028 | 0.015 | 0.017 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------------------|
| 2 | AA CU-3 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA SS-295 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 1 | 56X A201.1A | 0.494 | . | . | . | . | . | . | . | . | . | . | . | . | c 50 x 20 |
| 2 | AA SS-201 | 0.559 | . | . | . | . | 0.0001 | . | . | 0.00002 | 0.0006 | . | . | . | c 64 x 25 |
| 3 | V 4502 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 4503-2 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | 56X G2014A | . | . | . | . | . | . | . | . | . | . | . | . | . | w ~50 x ~20 |
| 1 | AL 212/02 | 0.448 | . | . | . | 0.0009 | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | AL 232/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 2 | ALC-2017-AC | . | . | . | 0.0025i | 0.0013 | . | . | 0.0025i | 0.0019i | 0.0031i | 0.0031 | . | 0.0028i | w 57 x 25 |
| 1 | AL 242/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 3 | V 4004-1 | . | . | 0.0004 | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | AA SS-2017 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 3 | AJ 012 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 25 |
| 2 | HRT AL2014 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 35 x 20 |
| 3 | V 4504 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | PY 960 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 1 | PY 268 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 2 | AA WA-2017 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | AL 241/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | V 3042-4 | . | . | <0.0003 | 0.0054 | 0.00049 | <0.0004 | 0.00212 | <0.0002 | <0.0002 | . | <0.001 | . | 0.0567 | c 60 x 20 Al: [88.9] |
| 2 | AA SS-2117 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | AA CU-2 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA ST2-2000 | <0.0010 | . | <0.0005 | . | 0.001i | 0.001i | . | . | . | . | 0.001i | . | 0.001i | c 64 x 25 |
| 1 | AL 222/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 2 | ALC-16S-AQ | . | . | . | . | . | . | . | 0.0005 | . | . | . | . | . | w 57 x 25 |
| 1 | AL 221/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 2 | AA CU-1 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | PY 3977-2 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 2 | ALC-6111-AA | . | . | . | 0.0049i | . | . | . | 0.0034i | 0.0034i | 0.007 | 0.004 | . | 0.0030i | w 57 x 25 |

CRM Cu Alloy Sets

available as SETS ONLY, as grouped

62 mm Ø x 30 mm

| Number | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | Cr |
|----------------|-------|-------|---------|-------|--------|-------|---------|-------|---------|----------|--------|
| NCS HS49733-1 | 4.76 | 0.455 | 0.0020 | 0.476 | 0.0038 | 0.358 | 0.0037 | 0.027 | (0.007) | 0.038 | . |
| NCS HS49733-2 | 5.53 | 0.380 | 0.021 | 0.387 | 0.017 | 0.257 | 0.071 | 0.061 | 0.049 | 0.103 | . |
| NCS HS49733-3 | 6.21 | 0.302 | 0.040 | 0.318 | 0.041 | 0.198 | 0.160 | 0.175 | 0.105 | 0.157 | . |
| NCS HS49733-4 | 6.64 | 0.199 | 0.062 | 0.161 | 0.069 | 0.159 | 0.123 | 0.116 | 0.157 | 0.236 | . |
| NCS HS49733-5 | 6.97 | 0.105 | 0.126 | 0.090 | 0.090 | 0.106 | (0.154) | 0.170 | 0.189 | 0.197 | . |
| NCS HS49708b-1 | 2.08 | 0.691 | 2.06 | 0.337 | 0.108 | 0.474 | 0.087 | . | 0.051 | . | . |
| NCS HS49708b-2 | 3.60 | 0.44 | 0.80 | 1.04 | 0.019 | 0.54 | 0.016 | . | 0.10 | . | . |
| NCS HS49708b-3 | 4.19 | 0.39 | 1.55 | 0.55 | 0.037 | 0.129 | 0.044 | . | 0.144 | . | . |
| NCS HS49708b-4 | 5.77 | 0.203 | 1.20 | 0.204 | 0.060 | 0.676 | 0.184 | . | 0.322 | . | . |
| NCS HS49708b-5 | 1.12 | 0.83 | 2.68 | 0.082 | 0.192 | 0.084 | 0.0060 | . | 0.728 | . | . |
| NCS HS49711-1 | 1.88 | 0.825 | 0.692 | 1.24 | 0.161 | 1.25 | (0.121) | . | 0.401 | (0.191) | 0.092 |
| NCS HS49711-2 | 2.89 | 0.657 | 0.298 | 0.932 | 0.113 | 0.893 | (0.169) | . | 0.343 | (0.250) | 0.223 |
| NCS HS49711-3 | 4.03 | 0.427 | 0.481 | 0.561 | 0.045 | 0.552 | 0.047 | . | 0.236 | 0.137 | 0.157 |
| NCS HS49711-4 | 5.47 | 0.188 | (0.108) | 0.241 | 0.089 | 0.236 | 0.078 | . | 0.125 | 0.048 | 0.193 |
| NCS HS49711-5 | 0.645 | 1.01 | 0.912 | 1.50 | 0.210 | 1.57 | 0.202 | . | 0.054 | (0.0058) | 0.272 |
| NCS HS49711-6 | 6.57 | 0.120 | 0.030 | 0.073 | 0.0084 | 0.092 | 0.018 | . | 0.539 | 0.301 | 0.0099 |
| NCS HS49705-1 | 4.51 | 0.454 | 0.428 | 0.095 | 1.55 | 0.904 | 0.021 | . | 0.140 | . | . |
| NCS HS49705-2 | 2.51 | 1.21 | 1.37 | 0.138 | 1.12 | 0.657 | 0.088 | . | 0.238 | . | . |
| NCS HS49705-3 | 1.51 | 0.908 | 0.897 | 0.239 | 2.02 | 1.22 | 0.120 | . | 0.334 | . | . |
| NCS HS49705-4 | 3.33 | 1.61 | 1.80 | 0.184 | 0.624 | 0.371 | 0.055 | . | 0.166 | . | . |
| NCS HS49705-5 | 0.927 | 1.87 | 2.26 | 0.287 | 0.153 | 1.53 | 0.161 | . | 0.367 | . | . |
| NCS HS49705-6 | 5.55 | 0.115 | 0.074 | 0.054 | 2.25 | 0.090 | 0.00095 | . | 0.084 | . | . |

| Number | Cu | Fe | Mg | Mn | Ni | Si | Ti | V | Zn | Zr | Cr |
|--------|----|----|----|----|----|----|----|---|----|----|----|
|--------|----|----|----|----|----|----|----|---|----|----|----|

Cu/Fe Alloys

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr | |
|---|---------------|----------|---------|---------|-------|-------|---------|---------|--------|--------|---------|-------|---------|--------|---------|---------|---------|--|
| 2 | AA SS-238 | <0.0005 | <0.0010 | <0.0050 | 10.2 | 1.0i | 0.015 | 0.30 | 0.20i | 0.20i | <0.0030 | 4.0i | <0.0010 | 0.05i | 0.01i | 0.20i | <0.0030 | |
| 2 | AA KA-222 | . | . | <0.0050 | 10.0 | 1.0i | . | 0.30 | 0.15i | 0.15i | 0.20i | 0.75 | 0.12i | 0.10i | . | 0.25 | . | |
| 2 | ALC-236-AE | . | 0.026 | 0.028 | 6.94 | 1.22 | 0.020 | 0.06 | 0.11 | 0.045 | 0.023 | 2.03 | 0.024 | 0.12 | 0.015 | 0.040 | . | |
| 1 | 56X G2011A | . | 0.527 | 0.0031 | 5.70 | 0.632 | . | 0.0102 | 0.0183 | 0.0044 | 0.332 | 0.089 | 0.0037 | 0.0121 | . | 0.0188 | . | |
| 1 | 56X G2000J 5C | 0.0050 | 0.136 | 0.0078 | 5.52 | 0.98 | . | 0.39 | 0.007 | 0.204 | 0.69 | 0.321 | <0.005 | 0.063 | 0.027 | 0.368 | 0.064 | |
| 2 | IMI 4P5 | . | . | 0.19 | 4.25 | 1.03 | . | <0.005 | 0.14 | <0.005 | <0.005 | 3.94 | <0.005 | <0.005 | . | 0.61 | . | |
| 2 | AA KA-295 | . | . | <0.0050 | 4.1i | 1.0i | . | 0.01i | 0.10i | 0.02i | 0.02i | 0.55 | 0.004i | 0.07i | . | 0.15i | . | |
| 1 | AL 472/02 | . | . | 0.035 | 4.02 | 1.43 | 0.0113 | 0.344 | 0.321 | 0.498 | 0.117 | 17.7 | 0.094 | 0.103 | 0.057 | 0.321 | 0.0192 | |
| 1 | AL 441/04 | . | . | 0.031 | 3.92 | 0.98 | . | 0.32 | 0.40 | 0.097 | 0.193 | 6.82 | 0.195 | 0.148 | 0.021 | 1.97 | 0.097 | |
| 2 | HRT AL2016 | . | 0.070 | 0.039 | 3.68 | 0.56 | . | 0.72 | 0.73 | 0.021 | 0.86 | 0.69 | 0.016 | 0.038 | . | 0.29 | . | |
| 2 | AA KC-380 | . | . | 0.06i | 3.6i | 1.2i | . | 0.20i | 0.30 | 0.20i | 0.05i | 9.0i | 0.06i | 0.07i | . | 0.60 | . | |
| 2 | AA KE-380 | . | . | 0.02i | 3.6i | 1.1i | . | <0.0050 | 0.20i | 0.03i | . | 9.6i | . | 0.03i | . | <0.0050 | . | |
| 2 | AA SS-384 | <0.0005 | <0.0010 | 0.02i | 3.5i | 1.0i | 0.02i | 0.10i | 0.30 | 0.25 | 0.12i | 11.5 | 0.12i | 0.05i | 0.01i | 0.60 | <0.0030 | |
| 1 | V 3050-1 | . | 0.0114 | 0.0509 | 3.24i | 0.474 | 0.01294 | 0.195 | 0.235 | 0.1076 | 0.0592 | 5.12 | 0.0397 | 0.1259 | 0.00598 | 0.311 | 0.00564 | |
| 2 | AA KA-380 | . | . | 0.05i | 3.1i | 1.1i | . | 0.45 | 0.15i | 0.45 | 0.10i | 9.4i | 0.20i | 0.12i | . | 0.15i | . | |
| 1 | PY 245 | . | . | 0.0007 | 3.00 | 1.28 | . | 1.12 | 0.0015 | 0.600 | 0.0485 | 0.010 | 0.0490 | 0.0113 | . | 0.1190 | 0.1425 | |
| 1 | AL 445C/01 | . | . | 0.0272 | 2.97 | 0.873 | . | 0.314 | 0.213 | 0.336 | 0.0507 | 10.34 | 0.195 | 0.107 | 0.0393 | 0.290 | . | |
| 1 | AL 254/01 | . | . | 0.053 | 2.68 | 1.23 | . | 1.62 | 0.060 | 1.20 | . | 0.25 | . | 0.102 | . | 0.100 | . | |
| 1 | V 3049-7 | 0.00097 | 0.00822 | 0.0092 | 2.677 | 1.257 | 0.01438 | 0.237 | 0.536 | 0.261 | 0.1269 | 8.57 | 0.1008 | 0.1557 | 0.00918 | 0.841 | 0.00460 | |
| 1 | ERM-EB315a | 0.000433 | 0.0036 | 0.0274 | 2.46 | 0.621 | 0.0089 | 0.446 | 0.311 | 0.0955 | 0.077 | 9.88 | 0.0764 | 0.142 | 0.00470 | 0.801 | 0.00310 | |
| 2 | ALC-6495-AA | . | 0.040 | 0.030 | 2.36 | 1.05 | . | 1.31 | 0.53 | 0.051 | 0.032 | 10.40 | 0.028 | 0.10 | . | 0.055 | . | |
| 2 | AA SS-2618 | <0.0005 | <0.0010 | <0.0050 | 2.2i | 1.2i | 0.02i | 1.6i | 0.05i | 1.1i | <0.0030 | 0.20i | <0.0010 | 0.07i | 0.01i | 0.05i | <0.0030 | |
| 2 | 55X G26H 3F | . | . | 0.130 | 2.19 | 1.07 | 0.011 | 1.01 | 0.45 | 0.51 | 0.23 | 9.6 | 0.16 | 0.147 | 0.020 | 0.79 | . | |
| 1 | PY 954 | . | . | . | 1.37 | 1.20 | . | 0.66 | 0.152 | 0.153 | 0.36 | 8.85 | 0.260 | 0.102 | . | 0.83 | . | |
| 1 | 54X G231 H1F | (0.0001) | . | 0.116 | 1.06 | 0.892 | . | 0.339 | 0.0111 | 0.295 | 0.147 | 9.50 | 0.169 | 0.0290 | . | 0.624 | . | |
| 1 | PY 9534 | . | . | 0.0108 | 0.98 | 1.204 | . | 0.126 | 0.038 | 0.1389 | 0.134 | 11.88 | 0.076 | 0.016 | . | 0.049 | . | |
| 1 | PY 9536 | . | . | 0.0122 | 0.98 | 1.238 | . | 0.129 | 0.039 | 0.1370 | 0.133 | 11.91 | 0.075 | 0.017 | . | 0.049 | . | |
| 1 | 54X G13H 4Q | 0.0018 | . | 0.0283 | 0.688 | 0.534 | . | 0.644 | 0.227 | 0.789 | 0.062 | 12.41 | 0.060 | 0.109 | . | 0.443 | 0.0165 | |
| 1 | 54X G13H 4R | 0.0022 | . | 0.0329 | 0.684 | 0.400 | 0.009 | 0.665 | 0.598 | 0.774 | 0.0465 | 12.22 | 0.047 | 0.095 | 0.0028 | 0.202 | 0.0194 | |
| 1 | 55X G02D 5A | 0.0037 | . | 0.760 | 0.406 | 0.557 | . | 0.331 | 0.391 | 0.0652 | 0.067 | 10.03 | 0.051 | 0.0180 | 0.0129 | 0.131 | . | |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Mo | Na | P | Sb | Sc | Sr | Units |
|---|---------------|---------|-----------|-----------|----------|---------|-----------|----------|---------|---------|---------|----------|---------|---------|---------|------------------|
| 2 | AA SS-238 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | AA KA-222 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | ALC-236-AE | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 57 x 25 |
| 1 | 56X G2011A | . | . | . | . | . | . | . | . | . | . | . | . | . | . | w ~50 x ~20 |
| 1 | 56X G2000J 5C | 0.234 | . | . | . | . | 0.077 | . | 0.009 | . | . | . | . | . | . | c 50x20 or 40x15 |
| 2 | IMI 4P5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 58 x 7 |
| 2 | AA KA-295 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | AL 472/02 | . | . | . | 0.0070 | . | . | . | . | . | . | 0.0022 | . | . | . | w 60 x 25 |
| 1 | AL 441/04 | . | . | . | 0.0063 | . | . | . | . | . | 0.0016 | 0.0008 | . | . | 0.0005 | c 60 x 25 |
| 2 | HRT AL2016 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 30 x 20 |
| 2 | AA KC-380 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 2 | AA KE-380 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 2 | AA SS-384 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c 64 x 25 |
| 1 | V 3050-1 | . | Al:[90.0] | <0.0002 | 0.0045 | 0.00754 | 0.00822 | 0.0061 | 0.00043 | . | 0.00045 | <0.0005 | <0.001 | . | 0.0146 | c 60 x 20 |
| 2 | AA KA-380 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 1 | PY 245 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 1 | AL 445C/01 | . | . | . | 0.0018 | . | . | . | . | . | 0.0020 | 0.0021 | 0.0018 | . | . | c 55 x 30 |
| 1 | AL 254/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | V 3049-7 | . | Al:[85.0] | <0.0002 | 0.00592 | 0.00251 | 0.00331 | 0.00344 | <0.0002 | 0.101 | <0.0002 | 0.0027 | <0.001 | . | 0.0353 | c 60 x 20 |
| 1 | ERM-EB315a | . | . | (0.00021) | . | 0.00079 | (0.00014) | (0.0022) | . | . | . | (0.0007) | 0.0051 | . | . | c 65 x 30 |
| 2 | ALC-6495-AA | . | . | . | . | . | . | . | . | . | . | . | . | . | . | w 57 x 25 |
| 2 | AA SS-2618 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | 55X G26H 3F | . | . | . | . | . | 0.076 | . | 0.006 | . | . | . | . | . | . | c 40 x 15 |
| 1 | PY 954 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 4 last |
| 1 | 54X G231 H1F | . | . | . | 0.0075 | . | . | . | . | . | . | . | . | . | 0.0041 | H ~65 x ~20 |
| 1 | PY 9534 | . | . | . | . | . | . | . | . | . | . | . | 0.0004 | . | . | c 55 x 30 |
| 1 | PY 9536 | . | . | . | . | . | . | . | . | . | . | . | 0.0005 | . | . | c 55 x 30 |
| 1 | 54X G13H 4Q | . | . | . | (0.0015) | . | 0.0048 | . | . | . | . | . | . | . | (0.037) | c ~50 x ~20 |
| 1 | 54X G13H 4R | . | . | . | 0.0037 | . | 0.0098 | . | . | . | . | . | . | . | 0.043 | H ~65 x ~20 |
| 1 | 55X G02D 5A | . | . | . | . | 0.0182 | 0.0752 | . | . | . | . | . | 0.031 | . | . | c ~50 x ~15 |

Cu/Mg Alloys, chart 2 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|--------|-------|---------|--------------|-------|-------|-------|--------|--------|-------|--------|--------|--------|--------|--------|
| 1 | 56X G2007A | . | 0.147 | 0.0354 | 3.699 | 0.252 | 0.663 | 0.605 | 0.0087 | 0.889 | 0.328 | 0.0676 | 0.0236 | . | 0.386 | 0.0020 |
| 2 | AA KA-242 | 0.02i | . | <0.0050 | 3.6i | 0.40 | 1.8i | 0.02i | 2.2i | 0.02i | 0.25 | 0.02i | 0.06i | . | 0.03i | . |
| 1 | AL 223/02 | . | . | 0.0599 | 3.58 | 0.502 | 1.09 | 0.796 | 0.0522 | 0.0055 | 0.68 | 0.0040 | 0.0626 | 0.0133 | 0.0993 | 0.0046 |
| 2 | HRT AL2018 | . | . | 0.047 | 3.56 | 0.30 | 0.82 | 0.53 | 0.009 | 0.73 | 0.50 | . | 0.057 | . | 0.099 | . |
| 1 | AL 252/01 | . | . | 0.028 | 3.40 | 0.10 | 1.35 | 0.012 | 1.75 | . | 0.20 | . | 0.046 | . | 0.015 | . |
| 1 | AL 255/01 | . | . | . | 2.15 | 0.93 | 1.90 | 0.105 | 0.90 | . | 0.10 | . | 0.055 | . | 0.026 | . |
| 1 | AL 251/01 | . | . | 0.010 | 1.95 | 0.19 | 0.55 | 0.022 | 0.50 | . | 0.15 | . | 0.064 | . | 0.018 | . |
| 1 | 55X G900J 2G | 0.0035 | 0.366 | 0.080 | 0.726 | 0.504 | 0.594 | 0.192 | 0.083 | 0.217 | 0.227 | 0.240 | 0.079 | . | 0.295 | 0.0637 |
| 1 | AL 564/01 | 0.0023 | . | 0.010 | 0.575 | 0.126 | 5.53 | 0.445 | 0.016 | 0.011 | 0.91 | . | 0.111 | . | 0.104 | . |

| # | Number | B | Ca | Cd | Li | Na | Sb | Units |
|---|--------------|---------|---------|--------|---------|--------|--------|-------------------------|
| 1 | 56X G2007A | . | 0.0051 | . | . | . | . | w ~50 x ~20 |
| 2 | AA KA-242 | . | . | . | . | . | . | c 64 x 25 |
| 1 | AL 223/02 | <0.0002 | 0.00053 | 0.0011 | 0.00019 | 0.0008 | . | c 60 x 25 |
| 2 | HRT AL2018 | . | . | . | . | . | . | c 30 x 20 |
| 1 | AL 252/01 | . | . | . | . | . | . | c 60 x 25 |
| 1 | AL 255/01 | . | . | . | . | . | . | c 60 x 25 |
| 1 | AL 251/01 | . | . | . | . | . | . | c 60 x 25 |
| 1 | 55X G900J 2G | . | . | . | (0.007) | . | 0.0374 | c ~50 x ~15 |
| 1 | AL 564/01 | . | . | . | . | . | . | c 60 x 25 last of stock |

Cu/Mg/Si Alloys, chart 1 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|---------------|----------|---------|---------|-------|-------|--------|-------|--------|-------|---------|-------|---------|--------|--------|--------|---------|
| 1 | 518X 429A | . | . | 0.0034 | 1.023 | 0.201 | . | 1.25 | 0.0165 | 0.014 | 0.0020 | 28.9 | . | 0.0163 | 0.0090 | 0.0042 | . |
| 2 | 55X G28J 3U | . | . | 0.09 | 1.45 | 0.43 | . | 1.30 | 0.33 | 1.47 | 0.07 | 21.6 | 0.11 | 0.07 | . | 0.30 | . |
| 1 | 55X G28J 2T | (0.0002) | . | 0.088 | 1.44 | 0.516 | . | 0.902 | 0.231 | 1.63 | 0.058 | 15.04 | 0.136 | 0.065 | 0.0221 | 0.292 | . |
| 1 | 55X G28J 1Z | . | . | 0.319 | 1.82 | 0.678 | . | 1.26 | 0.024 | 2.47 | 0.0038 | 14.33 | 0.182 | 0.104 | 0.0095 | 0.258 | . |
| 1 | PY 9531 | . | . | . | 0.97 | 0.722 | . | 0.84 | 0.006 | 1.01 | 0.0080 | 13.63 | 0.0077 | 0.007 | . | 0.238 | . |
| 1 | PY 9530 | . | . | . | 0.98 | 0.724 | . | 0.86 | 0.006 | 1.04 | 0.0080 | 13.31 | 0.0079 | 0.007 | . | 0.240 | . |
| 1 | V 3201-2 | . | . | 0.010 | 0.83 | 0.33 | . | 1.30 | 0.033 | 0.78 | 0.0094 | 12.93 | 0.0045 | 0.014 | . | 0.23 | . |
| 1 | AL 434/03 | . | . | 0.103 | 1.74 | 0.33 | . | 1.45 | 0.20 | 1.49 | 0.0074 | 12.9 | 0.0054 | 0.114 | 0.0143 | 0.129 | 0.0112 |
| 2 | ALC-339.0-AD | 0.0013 | 0.04 | 0.051 | 1.40 | 0.048 | 0.031 | 1.23 | 0.37 | 1.12 | 0.046 | 12.73 | 0.046 | 0.048 | 0.032 | 0.099 | 0.0029 |
| 1 | V 3202-3 | . | . | 0.0045 | 0.96 | 0.61 | 0.028 | 0.94 | 0.072 | 0.97 | 0.0023 | 12.15 | 0.0007 | 0.022 | 0.0056 | 0.12 | 0.0044 |
| 2 | ALC-462A1-AA | 0.0011 | 0.009 | 0.028 | 3.86 | 0.15 | 0.018 | 1.050 | 0.025 | 1.07 | 0.0091 | 12.12 | 0.013 | 0.17 | 0.02 | 0.031 | 0.0035 |
| 3 | V 3207-1 | . | . | 0.016 | 0.87 | 0.48 | . | 0.94 | 0.22 | 0.86 | 0.036 | 12.1 | 0.03 | 0.052 | . | 0.14 | . |
| 2 | ALC-B162-AG | . | 0.030 | 0.033 | 2.56 | 0.40 | 0.016 | 1.07 | 0.08 | 0.68 | 0.031 | 12.04 | 0.027 | 0.054 | 0.012 | 0.044 | . |
| 2 | AA SS-336 | <0.0005 | <0.0010 | <0.0050 | 1.01 | 0.65 | 0.015 | 1.21 | 0.061 | 2.51 | <0.0030 | 12.0 | <0.0030 | 0.041 | 0.011 | 0.051 | <0.0030 |
| 1 | AL 433/04 | . | . | 0.047 | 1.44 | 0.306 | . | 1.25 | 0.154 | 1.05 | 0.019 | 11.96 | 0.0086 | 0.053 | 0.0157 | 0.201 | 0.0197 |
| 2 | AA SS-4032 | . | . | 0.05 | 0.9 | 0.25 | . | 1.1 | 0.02 | 0.9 | . | 11.7 | . | 0.02 | . | 0.1 | . |
| 2 | AA SS-339 | <0.0005i | <0.0010 | <0.0050 | 2.01 | 0.401 | 0.020i | 0.90i | 0.20i | 0.80i | <0.0030 | 11.5 | <0.0030 | 0.10i | 0.015i | 0.60i | <0.0030 |
| 1 | 55X G26H 5E | . | 0.0201 | 0.0394 | 1.40 | 0.199 | . | 1.41 | 0.495 | 1.13 | 0.0108 | 11.38 | 0.035 | 0.018 | 0.0169 | 0.008 | . |
| 1 | V 3204-2 | . | . | 0.005 | 1.50 | 0.465 | . | 1.19 | 0.098 | 0.92 | 0.0031 | 11.35 | 0.0009 | 0.014 | . | 0.12 | . |
| 2 | ALC-X332.0-AC | 0.0011 | 0.005 | 0.030 | 3.28 | 0.20 | 0.021 | 1.29 | 0.032 | 0.031 | 0.028 | 11.33 | 0.020 | 0.25 | 0.019 | 0.067 | 0.0030 |
| 1 | AL 436/02 | . | . | 0.0113 | 1.11 | 0.575 | . | 1.07 | 0.240 | 0.779 | 0.101 | 11.05 | 0.0077 | 0.079 | 0.0155 | 0.484 | 0.0301 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|---------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|----------------|
| 1 | 518X 429A | . | . | (0.002) | 0.020 | . | 2.22 | . | . | . | (0.004) | . | . | 0.0006 | H c 65 x 25 |
| 2 | 55X G28J 3U | . | . | . | . | . | . | . | . | . | . | . | . | . | 50x17 or 40x13 |
| 1 | 55X G28J 2T | . | . | . | . | 0.0023 | 0.0029 | . | . | . | . | 0.030 | . | . | c 50 x 20 |
| 1 | 55X G28J 1Z | . | . | . | . | . | 0.119 | . | . | . | (0.0048) | . | . | . | c 40 x 13 |
| 1 | PY 9531 | . | . | . | . | . | . | . | . | . | . | 0.0029 | . | . | c 55 x 30 |
| 1 | PY 9530 | . | . | . | . | . | . | . | . | . | . | 0.0030 | . | . | c 55 x 30 |
| 1 | V 3201-2 | . | . | <0.0004 | 0.0021 | . | . | . | . | . | 0.0006 | <0.0003 | . | . | c 60 x 20 |
| 1 | AL 434/03 | . | . | . | 0.015 | . | . | . | . | 0.0079 | (0.0012) | . | . | 0.027 | c 60 x 25 |
| 2 | ALC-339.0-AD | . | . | . | 0.0020 | . | . | . | 0.0009 | 0.0025 | 0.0061 | 0.0010 | . | 0.0021 | c 57 x 25 |
| 1 | V 3202-3 | . | . | <0.0005 | 0.0024 | 0.0010 | 0.0004 | 0.0062 | 0.0005 | 0.0002 | 0.0014 | <0.0005 | . | 0.0018 | c 60 x 20 |
| 2 | ALC-462A1-AA | . | . | . | 0.0049 | 0.0012 | . | . | 0.0029 | 0.0053 | . | 0.0023 | . | 0.0027 | w 57 x 25 |
| 3 | V 3207-1 | . | . | <0.0002 | 0.009 | . | . | . | . | . | . | . | . | 0.0007 | c 60 x 20 |
| 2 | ALC-B162-AG | . | . | . | . | . | . | . | . | . | . | . | . | . | c 57 x 25 |
| 2 | AA SS-336 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0031 | 0.0011 | <0.0010 | 0.02i | c 64 x 25 |
| 1 | AL 433/04 | . | . | . | 0.0052 | . | . | . | . | 0.0082 | 0.0012 | 0.0046 | . | 0.050 | c 60 x 25 |
| 2 | AA SS-4032 | . | . | . | . | . | . | . | . | . | . | . | . | 0.03 | c 64 x 25 |
| 2 | AA SS-339 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.020i | c 64 x 25 |
| 1 | 55X G26H 5E | . | . | . | . | . | 0.015 | . | . | . | . | . | . | . | c 50 x 20 |
| 1 | V 3204-2 | . | . | <0.0004 | 0.0023 | . | . | . | . | . | 0.0006 | <0.0002 | . | . | c 60 x 20 |
| 2 | ALC-X332.0-AC | . | . | . | 0.0039 | 0.0013 | 0.0021 | . | 0.0032 | 0.0062 | 0.0031 | . | . | 0.0030 | c 57 x 25 |
| 1 | AL 436/02 | . | . | . | 0.0024i | 0.0016 | 0.0015 | 0.0027 | . | 0.0003 | . | 0.0022 | . | 0.0024i | c 60 x 25 |

trace elements will be certified

Cu/Mg/Si Alloys, chart 2 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|---------|---------|-------|--------|--------|-------|--------|--------|---------|--------------|---------|--------|--------|--------|---------|
| 1 | PY 9526 | . | . | . | 1.43 | 0.347 | . | 1.27 | 0.140 | 0.81 | 0.0578 | 10.73 | 0.0579 | 0.105 | . | 0.061 | . |
| 2 | ALC-6195-AE | (0.001) | 0.020 | 0.027 | 3.45 | 0.70 | 0.015 | 1.05 | 0.43 | 0.028 | 0.033 | 10.70 | 0.028 | 0.017 | 0.012 | 0.93 | . |
| 1 | V 3035-4 | . | <0.001 | 0.167 | 1.98 | 0.626 | 0.0049 | 0.589 | 0.438 | 0.201 | 0.1244 | 10.62 | 0.0867 | 0.0925 | 0.0085 | 0.205 | 0.0005 |
| 1 | 54X G13H 2M | . | . | 0.103 | 1.29 | 0.767 | . | 1.37 | 0.248 | 1.15 | 0.083 | 10.42 | 0.145 | 0.166 | . | 0.530 | . |
| 2 | ALC-A143-AW | 0.0018 | 0.032 | 0.040 | 3.03 | 0.73 | 0.013 | 0.91 | 0.30 | 0.89 | 0.036 | 10.02 | 0.031 | 0.11 | 0.015 | 0.035 | . |
| 2 | AA SS-332 | <0.0005 | <0.0010 | <0.0050 | 3.21 | 0.70 | 0.015 | 1.01 | 0.25 | 0.50 | 0.10i | 9.21 | 0.10i | 0.14i | 0.02i | 0.25 | <0.0030 |
| 1 | PY 9528 | . | . | . | 1.99 | 0.556 | . | 1.75 | 0.055 | 1.50 | 0.0204 | 9.22 | 0.0200 | 0.197 | . | 0.022 | . |
| 1 | AL 665/01 | . | . | 0.11 | 1.00 | 0.72 | . | 1.20 | 0.41 | . | . | 1.72 | . | 0.15 | . | 0.20 | . |
| 2 | AA SS-6066 | <0.0005 | <0.0010 | 0.03i | 1.01 | 0.35 | 0.02i | 1.2i | 0.90 | 0.03i | <0.0030 | 1.51 | <0.0010 | 0.03i | 0.01i | 0.10i | <0.0030 |
| 1 | V 2551-2 | 0.0061 | . | 0.0033 | 0.629 | 0.1529 | 0.0194 | 5.05 | 0.0297 | 0.008 | 0.0097 | 1.456 | 0.0191 | 0.06 | 0.0129 | 0.0257 | 0.005 |
| 3 | V 4106 | . | . | 0.003 | 4.39 | 0.27 | . | 0.68 | 0.62 | <0.003 | . | 1.01 | . | 0.025 | . | 0.12 | 0.19 |
| 2 | ALC-6066-AF | 0.0013 | 0.007 | 0.018 | 0.96 | 0.60 | 0.021 | 0.97 | 0.71 | 0.032 | 0.0075 | 0.97 | 0.014 | 0.032 | 0.021 | 0.28 | 0.0032 |
| 3 | V 4103-1 | . | 0.0001 | 0.066 | 4.36 | 0.34 | 0.011 | 0.81 | 0.84 | 0.0027 | 0.0088 | 0.97 | 0.0063 | 0.018 | 0.0027 | 0.106 | 0.21 |
| 3 | V 4105 | . | <0.0002 | 0.113 | 4.5 | 0.31 | 0.008 | 0.73 | 0.81 | 0.0024 | 0.002 | 0.9 | 0.0003 | 0.0037 | 0.0025 | 0.123 | 0.0018 |
| 3 | V 4101-1 | . | . | <0.004 | 4.24 | 0.28 | . | 0.7 | 0.69 | . | . | 0.9 | . | 0.02 | . | 0.11 | 0.1 |
| 2 | AA SS-6111 | . | . | 0.0303 | 0.703 | 0.250 | 0.0136 | 0.595 | 0.235 | . | . | 0.786 | . | 0.0414 | 0.0105 | 0.099 | . |
| 2 | AA SS-2018 | <0.0005 | 0.05i | 0.05i | 4.2i | 0.40 | 0.02i | 0.65 | 0.05i | 2.1i | 0.05i | 0.70 | <0.0010 | 0.04i | 0.01i | 0.12i | <0.0030 |
| 1 | PY 849 | 0.00010 | . | 0.1308 | 0.753 | 0.613 | 0.0258 | 0.629 | 0.0504 | 0.0060 | 0.0015 | 0.613 | 0.0203 | 0.0043 | 0.0122 | 0.2497 | 0.1164 |
| 2 | ALC-6111-AE | 0.0013 | 0.025 | 0.072 | 0.75 | 0.24 | 0.019 | 0.77 | 0.20 | 0.028 | 0.016 | 0.60 | 0.018 | 0.065 | 0.023 | 0.027 | 0.0031 |
| 2 | ALC-17S-BE | . | 0.021 | 0.032 | 4.33 | 0.40 | 0.02 | 0.69 | 0.66 | 0.041 | 0.03 | 0.54 | 0.032 | 0.039 | 0.01 | 0.046 | . |
| 1 | 56X G14H 4C | . | . | 0.0309 | 3.82 | 0.251 | . | 1.72 | 0.122 | 2.37 | 0.050 | 0.504 | 0.037 | 0.069 | 0.0252 | 0.091 | . |
| 2 | ALC-2018-AB | 0.0011 | 0.021 | 0.028 | 4.14 | 0.34 | 0.020 | 0.62 | 0.015 | 2.15 | 0.017 | 0.48 | 0.015 | 0.027 | 0.016 | 0.030 | 0.0018 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------|
| 1 | PY 9526 | . | . | . | . | . | . | . | . | . | . | 0.0171 | . | . | c 55 x 30 |
| 2 | ALC-6195-AE | . | . | . | (0.01) | . | . | . | . | . | . | . | . | . | w 57 x 25 |
| 1 | V 3035-4 | . | . | <0.001 | 0.0302 | 0.0013 | 0.0034 | . | . | . | 0.0018 | <0.001 | . | 0.0344 | c 60 x 20 |
| 1 | 54X G13H 2M | . | . | . | . | . | 0.004 | . | . | . | . | . | . | . | c 50x10 or 40x13 |
| 2 | ALC-A143-AW | . | . | . | 0.006 | . | . | . | 0.0005 | 0.0004 | . | . | . | . | c 57 x 25 |
| 2 | AA SS-332 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c 64 x 25 |
| 1 | PY 9528 | . | . | . | . | . | . | . | . | . | . | 0.0092 | . | . | c 55 x 30 |
| 1 | AL 665/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 2 | AA SS-6066 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 1 | V 2551-2 | . | . | <0.0002 | 0.001 | 0.0007 | 0.0019 | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 4106 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | ALC-6066-AF | . | . | . | 0.0028 | 0.0011 | . | . | 0.0034i | 0.0039i | 0.0032 | 0.0026 | . | 0.0029 | w 57 x 25 |
| 3 | V 4103-1 | 0.0022 | . | 0.0001 | 0.0004 | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 4105 | 0.0005 | . | 0.0001 | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 4101-1 | . | . | . | <0.001 | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | AA SS-6111 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA SS-2018 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 1 | PY 849 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 2 | ALC-6111-AE | . | . | . | 0.0023i | 0.0014 | . | . | 0.0025i | 0.0019i | 0.003 | 0.0031 | . | 0.0026i | w 57 x 25 |
| 2 | ALC-17S-BE | . | . | . | . | . | . | . | . | . | . | . | . | . | w 57 x 25 |
| 1 | 56X G14H 4C | . | . | . | . | 0.0288 | . | . | 0.0017i | 0.0009i | 0.0030 | 0.0025 | . | . | c 50 x 20 |
| 2 | ALC-2018-AB | . | . | . | 0.0025 | 0.0012 | 0.0017 | . | 0.0017i | 0.0009i | 0.0030 | 0.0025 | . | 0.0026 | w 57 x 25 |

Cu/Mg/Zn Alloys, chart 1 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr | |
|---|-------------|---------|---------|--------|-------|--------|--------|-------|---------|---------|---------|----------|---------|----------|---------|--------------|-------------|-------|
| 1 | 59X G77J 6B | 0.0079 | . | 0.0127 | 1.08 | 0.293 | . | 2.60 | 0.0318 | 0.0248 | 0.0123 | 0.094 | 0.0267 | 0.020 | 0.0107 | 12.02 | 0.261 | |
| 1 | IARM 343A | . | . | 0.0009 | 2.29 | 0.084 | 0.012 | 2.04 | (0.002) | (0.005) | 0.0012 | 0.050 | . | 0.0175 | 0.0058 | 8.15 | 0.152 | |
| 1 | 59X G7068A | . | . | 0.0324 | 1.676 | 0.117 | . | 2.70 | 0.0156 | 0.0056 | 0.0020 | 0.051 | (0.001) | 0.0419 | . | 7.96 | 0.088 | |
| 1 | PY 10841 | (0.001) | . | (0.15) | (1.6) | (0.12) | . | 3.60 | (0.02) | . | . | (0.08) | (0.001) | (0.01) | (0.005) | (7.8) | . | |
| 1 | PY 10839 | (0.001) | . | (0.15) | 2.32 | (0.12) | . | (2.8) | (0.02) | . | . | (0.08) | (0.001) | (0.01) | (0.005) | (7.8) | . | |
| 1 | PY 10838 | (0.001) | . | (0.15) | 0.76 | (0.12) | . | (2.8) | (0.02) | . | . | (0.08) | (0.001) | (0.01) | (0.005) | (7.8) | . | |
| 1 | PY 10840 | (0.001) | . | (0.15) | (1.6) | (0.12) | . | 2.15 | (0.02) | . | . | (0.08) | (0.001) | (0.01) | (0.005) | (7.8) | . | |
| 2 | AA SS-7001 | 0.003i | <0.0010 | 0.21i | 2.1i | 0.15i | 0.02i | 3.1i | 0.04i | 0.01i | <0.0030 | 0.10i | <0.0010 | 0.03i | 0.01i | 7.6i | <0.0030 | |
| 2 | AA SS-7085 | . | . | 0.02 | 1.7 | 0.04 | . | 1.5 | 0.02 | . | . | 0.03 | . | 0.03 | . | 7.5 | 0.10 | |
| 2 | AA SS-7047 | . | . | 0.011 | 0.024 | 0.051 | 0.010 | 1.54 | 0.021 | . | . | 0.042 | . | 0.031 | 0.011 | 7.48 | 0.106 | |
| 1 | BAM EB317 | 0.00101 | 0.0041 | 0.141 | 1.770 | 0.112 | 0.0183 | 2.39 | 0.0912 | 0.0359 | 0.00479 | 0.0271 | 0.0237 | 0.0952 | 0.0105 | 6.92 | 0.130 | |
| 2 | AA SS-7178 | 0.0001 | <0.0010 | 0.25 | 2.0i | 0.20i | 0.015 | 2.9i | 0.08i | 0.02i | <0.0030 | 0.15i | <0.0010 | 0.05i | 0.01i | 6.8i | <0.0030 | |
| 1 | PY 9157 | (0.003) | . | (0.2) | (1.5) | (0.15) | . | (2.5) | (0.05) | (0.01) | (0.005) | (0.1) | (0.005) | (0.02) | (0.005) | 6.7 | . | |
| 2 | AA ST1-7000 | 0.0005 | 0.001i | 0.15i | 1.5i | 0.25 | 0.02i | 2.5i | 0.25 | 0.02i | 0.003i | 0.15i | 0.001i | 0.04i | 0.01i | 6.5i | 0.001i | |
| 1 | PY 10843 | (0.001) | . | (0.15) | (1.6) | (0.12) | . | (2.8) | (0.02) | . | . | (0.08) | (0.001) | (0.01) | (0.005) | 6.40 | . | |
| 2 | ALC-7050-AE | 0.0011 | 0.0071 | 0.031 | 2.35 | 0.120 | 0.022 | 2.44 | 0.089 | 0.0249 | 0.0095 | 0.13 | 0.0192 | 0.063 | 0.025 | 6.32 | 0.145 | |
| 2 | AA SS-7050 | 0.001i | <0.0010 | 0.02i | 2.4i | 0.15i | 0.02i | 2.3i | 0.03i | 0.02i | <0.0030 | 0.08i | <0.0010 | 0.04i | <0.0050 | 6.2i | 0.12i | |
| 2 | AA WF-7075 | <0.0005 | . | 0.25 | 1.6i | 0.25 | . | 2.6i | 0.10i | <0.0050 | . | 0.15i | . | 0.05i | . | 6.2i | . | |
| 1 | 59X G7050A | . | . | 0.0097 | 2.12 | 0.0742 | . | 2.021 | 0.10i | 0.0047 | 0.0041 | (0.0010) | 0.047 | (0.0008) | 0.0242 | 0.0092 | 6.18 | 0.100 |
| 1 | AL 734/02 | . | . | 0.18 | 2.07 | 0.360 | . | 3.00 | 0.51 | 0.052 | 0.010 | 0.250 | 0.0040 | 0.035 | 0.029 | 6.16 | 0.050 | |
| 2 | AA WB-7075 | 0.002i | . | 0.25 | 2.0i | 0.25 | . | 2.6i | 0.10i | <0.0050 | . | 0.15i | . | 0.05i | . | 5.8i | . | |
| 2 | AA SS-7075 | <0.0005 | <0.0010 | 0.22i | 1.6i | 0.25 | 0.02i | 2.6i | 0.08i | <0.0050 | <0.0030 | 0.16i | <0.0010 | 0.04i | 0.01i | 5.8i | <0.0030 | |
| 2 | AA WC-7075 | 0.004i | . | 0.25 | 1.6i | 0.25 | . | 2.6i | 0.10i | <0.0050 | . | 0.15i | . | 0.05i | . | 5.8i | . | |
| 2 | AA WD-7075 | 0.004i | . | 0.25 | 1.6i | 0.25 | . | 2.9i | 0.10i | <0.0050 | . | 0.15i | . | 0.05i | . | 5.8i | . | |
| 2 | AA WG-7075 | 0.001i | . | 0.18i | 1.6i | 0.15i | . | 2.6i | 0.20i | <0.0050 | . | 0.30 | . | 0.08i | . | 5.8i | . | |
| 2 | AA WH-7075 | 0.008i | . | 0.30 | 1.6i | 0.35 | . | 2.6i | 0.03i | <0.0050 | . | 0.10i | . | 0.01i | . | 5.8i | . | |
| 2 | AA WA-7075 | 0.001i | . | 0.25 | 1.2i | 0.25 | . | 2.6i | 0.10i | <0.0050 | . | 0.15i | . | 0.05i | . | 5.8i | . | |
| 3 | AJ 031 | 0.0027 | . | 0.205 | 1.50 | 0.300 | . | 2.51 | 0.112 | 0.045 | . | 0.199 | . | 0.024 | 0.0043 | 5.80 | 0.142 | |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units | |
|---|-------------|---------|---------|----------|-----------|----------|-----------|---------|---------|----------|----------|---------|---------|----------|-------|---------------|
| 1 | 59X G77J 6B | . | . | . | . | 0.0015 | 0.0087 | . | . | . | . | . | . | . | c | 50 x ~15 |
| 1 | IARM 343A | . | . | 0.0007 | 0.0024 | (0.0002) | (0.0008) | . | . | (0.0005) | 0.0010 | . | . | (0.0003) | c | 57 x 25 |
| 1 | 59X G7068A | . | . | . | . | . | . | . | . | . | . | . | . | . | w | ~50 x ~20 |
| 1 | PY 10841 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 1 | PY 10839 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 1 | PY 10838 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 1 | PY 10840 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 2 | AA SS-7001 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AA SS-7085 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA SS-7047 | 0.368 | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | BAM EB317 | 0.0073 | . | (0.0037) | (0.00060) | . | In:0.0162 | . | . | . | (0.0027) | . | . | . | c | 50 x 30 |
| 2 | AA SS-7178 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 1 | PY 9157 | . | . | . | . | (0.005) | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 2 | AA ST1-7000 | 0.001i | . | <0.0005 | . | 0.001i | 0.001i | 0.003i | . | . | . | 0.001i | . | 0.001i | c | 64 x 25 |
| 1 | PY 10843 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 2 | ALC-7050-AE | . | . | . | 0.0028 | 0.0012 | . | . | 0.0024i | 0.0017i | 0.0012 | 0.0024 | . | 0.0026 | w | 57 x 25 |
| 2 | AA SS-7050 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64x25 or 25x6 |
| 2 | AA WF-7075 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | 59X G7050A | . | . | 0.0011 | . | . | . | . | . | . | . | . | . | . | w | ~50 x ~20 |
| 1 | AL 734/02 | . | . | . | . | . | 0.0214 | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | AA WB-7075 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA SS-7075 | <0.0010 | <0.0010 | <0.001 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64x25 or 25x6 |
| 2 | AA WC-7075 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA WD-7075 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA WG-7075 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA WH-7075 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA WA-7075 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 3 | AJ 031 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 25 |

Cu/Mg/Zn Alloys, chart 2 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|--------|--------|--------|--------|---------|-------|--------|---------|---------|--------|----------|--------|---------|--------------|--------|
| 3 | V 5202-1 | 0.0015 | . | 0.22 | 1.38 | 0.335 | . | 2.2 | 0.047 | 0.002 | 0.004 | 0.12 | . | 0.067 | 0.005 | 5.77 | 0.12 |
| 3 | V 5201-1 | . | . | 0.3 | 1.55 | 0.42 | . | 2.35 | 0.1 | . | . | 0.2 | . | 0.11 | . | 5.73 | 0.065 |
| 1 | PY 9156 | 0.0020 | . | 0.106 | 1.45 | 0.048 | . | 2.50 | 0.298 | 0.0590 | 0.0150 | 0.260 | 0.0170 | 0.0110 | 0.0315 | 5.70 | . |
| 1 | IARM 111B | 0.00087 | . | 0.205 | 1.38 | 0.225 | 0.008 | 2.20 | 0.093 | 0.0098 | 0.0063 | 0.192 | (0.002) | 0.0427 | 0.0035 | 5.70 | 0.0132 |
| 1 | PY 6017 | 0.0090 | . | 0.0108 | 1.52 | 0.014 | . | 2.37 | 0.265 | 0.052 | 0.0163 | 0.247 | 0.0158 | 0.0095 | 0.0311 | 5.63 | 0.1380 |
| 1 | PY 9152 | (0.003) | . | (0.2) | (1.5) | (0.15) | . | 1.47 | (0.05) | (0.01) | (0.005) | (0.1) | (0.005) | (0.02) | (0.005) | (5.6) | . |
| 1 | PY 9151 | (0.003) | . | (0.2) | 2.08 | (0.15) | . | (2.5) | (0.05) | (0.01) | (0.005) | (0.1) | (0.005) | (0.02) | (0.005) | (5.6) | . |
| 3 | V 5101-1 | <0.0001 | . | 0.17 | 1.02 | 0.2 | . | 2.34 | 0.41 | 0.002 | 0.024 | 0.17 | . | 0.047 | . | 5.59 | <0.003 |
| 1 | AL AS70/02 | . | . | 0.209 | 1.62 | 0.291 | . | 2.71 | 0.165 | 0.031 | 0.011 | 0.157 | . | 0.030 | 0.023 | 5.53 | 0.119 |
| 1 | 59X G7075B | . | . | 0.1831 | 1.227 | 0.122 | 0.0105 | 2.231 | 0.0229 | 0.0035 | 0.0011 | 0.066 | (0.0008) | 0.0248 | 0.0058 | 5.49 | 0.0008 |
| 1 | SRM 1259 | 0.0025 | . | 0.173 | 1.60 | 0.205 | (0.022) | 2.48 | 0.079 | 0.063 | . | 0.18 | . | (0.04) | . | 5.44 | . |
| 1 | PY 6018 | 0.0036 | . | 0.294 | 1.47 | 0.264 | . | 2.26 | 0.165 | 0.0302 | 0.0285 | 0.027 | 0.0274 | 0.0710 | 0.0251 | 5.42 | 0.0160 |
| 2 | AA WE-7075 | <0.0005 | . | 0.25 | 1.61 | 0.25 | . | 2.61 | 0.101 | <0.0050 | . | 0.151 | . | 0.051 | . | 5.31 | . |
| 1 | AL 733/03 | 0.0010 | . | 0.258 | 1.45 | 0.142 | . | 2.36 | 0.282 | 0.017 | 0.019 | 0.104 | 0.00018 | 0.021 | 0.0100 | 5.02 | 0.0101 |
| 1 | 59X G7020A | . | . | 0.192 | 0.0326 | 0.178 | . | 1.316 | 0.200 | 0.0051 | 0.0018 | 0.0496 | 0.0022 | 0.0261 | 0.0111 | 4.82 | 0.146 |
| 3 | V 5103-1 | . | . | 0.14 | 0.56 | 0.2 | . | 1.7 | 0.33 | . | . | 0.17 | . | 0.034 | . | 4.75 | . |
| 1 | 59X G77J 3F | . | 0.0297 | 0.150 | 1.30 | 0.70 | . | 2.53 | 0.246 | 0.402 | 0.108 | 0.647 | 0.122 | 0.148 | 0.0181 | 4.72 | 0.0144 |
| 2 | ALC-79S-AF | . | 0.040 | 0.20 | 0.64 | 0.27 | 0.02 | 3.38 | 0.22 | 0.04 | 0.04 | 0.19 | 0.042 | 0.067 | . | 4.68 | . |
| 1 | AL 732/01 | . | . | 0.045 | 0.99 | 0.24 | . | 2.06 | 0.20 | . | . | 0.20 | . | 0.016 | . | 4.45 | . |
| 1 | 59X G77J 2E | . | . | 0.096 | 2.35 | 0.295 | . | 3.05 | 0.245 | 0.52 | 0.125 | 0.212 | 0.006 | 0.015 | 0.0155 | 3.35 | 0.153 |
| 1 | 59X G77J 1G | . | 0.0578 | 0.297 | 2.810 | 0.209 | 0.010 | 4.52 | 0.810 | 0.205 | 0.158 | 0.1015 | 0.148 | 0.251 | 0.0064 | 2.289 | 0.0484 |

| # | Number | As | Ca | Cd | Co | Li | Mo | Na | P | Sb | Sr | Units |
|---|-------------|----------|---------|-----------|----------|----|----|---------|----------|----------|----------|----------------|
| 3 | V 5202-1 | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 5201-1 | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | PY 9156 | . | . | 0.0105 | . | . | . | . | . | . | . | c 55 x 30 |
| 1 | IARM 111B | . | (0.001) | (0.0003) | (0.0005) | . | . | (0.003) | (<0.004) | (<0.015) | (0.0004) | 57 Ø x 2 or 25 |
| 1 | PY 6017 | . | . | 0.0077 | . | . | . | 0.0053 | . | . | . | c 55 x 30 |
| 1 | PY 9152 | . | . | (0.005) | . | . | . | . | . | . | . | c 55 x 30 |
| 1 | PY 9151 | . | . | (0.005) | . | . | . | . | . | . | . | c 55 x 30 |
| 3 | V 5101-1 | Ag:0.045 | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL AS70/02 | . | . | . | 0.000961 | . | . | 0.00161 | . | . | . | c 60 x 25 |
| 1 | 59X G7075B | . | . | B:(0.003) | . | . | . | . | . | . | . | w ~50 x ~20 |
| 1 | SRM 1259 | . | . | . | . | . | . | . | . | . | . | c 35 x 19 |
| 1 | PY 6018 | . | . | 0.0178 | . | . | . | 0.00090 | . | . | . | c 55 x 30 |
| 2 | AA WE-7075 | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | AL 733/03 | . | . | . | 0.00024 | . | . | 0.0017 | . | . | . | c 60 x 25 |
| 1 | 59X G7020A | B:0.0025 | 0.0020 | . | . | . | . | . | . | . | . | w ~50 x ~20 |
| 3 | V 5103-1 | Ag:0.28 | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | 59X G77J 3F | . | . | 0.0095 | 0.032 | . | . | . | . | . | . | c 50 x 20 |
| 2 | ALC-79S-AF | . | . | . | . | . | . | . | . | . | . | w 57 x 25 |
| 1 | AL 732/01 | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | 59X G77J 2E | . | . | 0.0025 | . | . | . | . | . | . | . | c 50 x 20 |
| 1 | 59X G77J 1G | . | . | 0.0351 | 0.0104 | . | . | . | . | . | . | HIP ~65 x ~25 |

Cu/Ni Alloys

analysis listed in mass % except * which is mg/kg

| # | Number | Be* | Bi | Cd | Co | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Sb | Si | Sn | Ti | V | Zn | Zr | Units |
|---|--------------|-----|----|----|-----------|--------|-------------|-------|---------|--------|-------|----------|---------|-------|---------|-------|--------|--------|---------|------------------|
| 1 | AL 276/01 | . | . | . | 0.245 | <0.001 | 5.30 | 0.096 | <0.001 | 0.251 | 1.02 | . | 0.237 | 0.050 | . | 0.213 | 0.004 | <0.005 | 0.0002 | c 60 x 25 |
| 1 | AL 272/01 | . | . | . | 0.10 | 0.012 | 5.22 | 0.21 | 0.16 | 0.10 | 1.77 | . | 0.54 | 0.10 | . | 0.20 | 0.026 | 0.022 | 0.19 | c 60 x 25 |
| 1 | 56X G250J 3C | 14 | . | . | 0.264 | 0.024 | 4.90 | 0.079 | (0.001) | 0.278 | 0.92 | 0.024 | 0.35 | 0.11 | 0.031 | 0.162 | 0.036 | 0.103 | 0.275 | c 40 x 15 |
| 1 | 56X G250J 2D | . | . | . | 0.195 | 0.063 | 4.81 | 0.346 | 0.060 | 0.225 | 1.10 | (0.0016) | 0.324 | 0.211 | (0.004) | 0.210 | 0.018 | 0.155 | 0.247 | c 50x20 or 40x15 |
| 1 | AL 275/01 | . | . | . | 0.10 | 0.010 | 4.78 | 0.21 | 0.036 | 0.053 | 1.73 | . | 0.10 | 0.090 | . | 0.16 | 0.016 | 0.012 | 0.10 | c 60 x 25 |
| 1 | AL 271/01 | . | . | . | 0.20 | 0.012 | 4.47 | 0.31 | 0.075 | 0.21 | 2.05 | . | 0.40 | 0.19 | . | 0.16 | 0.015 | 0.012 | 0.10 | c 60 x 25 |
| 1 | 56X G250J 5D | 22 | . | . | 0.34 | 0.047 | 4.36 | 0.535 | 0.022 | 0.150 | 1.77 | 0.076 | 0.076 | 0.205 | 0.097 | 0.051 | 0.021 | 0.086 | 0.22 | c ~40 x ~15 |
| 1 | 56X G250J 1C | . | . | . | 0.008 | 0.0067 | 3.82 | 0.41 | 0.075 | 0.040 | 1.33 | 0.101 | (0.003) | 0.26 | 0.125 | 0.008 | 0.102 | 0.28 | (0.003) | c 40 x 15 |
| 1 | 56X G2618A | . | . | . | Ca:0.0020 | 0.0165 | 2.45 | 1.057 | 1.625 | 0.0394 | 0.953 | 0.0020 | . | 0.175 | 0.0007 | 0.069 | 0.0162 | 0.0139 | 0.0011 | w ~50 x ~20 |

Cu/Si Alloys, chart 1 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|---------------|-----------|---------|---------|-------|-------|---------|---------|-------|--------|---------|--------------|----------|--------|---------|---------|---------|
| 2 | 55X G28J 5Y | . | . | 0.009 | 0.69 | 0.26 | . | 0.73 | 0.67 | 0.43 | 0.18 | 27.6 | 0.03 | 0.24 | . | 0.015 | . |
| 2 | ALC-A390.1-AA | 0.0011 | 0.0029 | 0.050 | 4.84 | 0.38 | 0.016 | 0.62 | 0.052 | 0.051 | 0.0035 | 17.70 | 0.046 | 0.13 | 0.018 | 0.047 | 0.0032 |
| 1 | V 3382-2 | . | <0.0003 | 0.0015 | 0.92 | 0.39 | 0.011 | 0.825 | 0.21 | 0.92 | 0.0013 | 17.1 | <0.001 | 0.065 | 0.0076 | 0.086 | 0.0017 |
| 2 | AA SS-390 | <0.0005 | <0.0010 | 0.051 | 4.5i | 0.90 | 0.02i | 0.60 | 0.25 | 0.10i | 0.08i | 16.7 | 0.08i | 0.10i | 0.01i | 0.50 | <0.0030 |
| 1 | 55X A30J 4G | (<0.0001) | . | 0.0752 | 3.2i | 0.51i | . | 0.508 | 0.350 | 0.164 | 0.0257 | 16.4 | 0.0190 | 0.0231 | 0.020 | 0.067 | . |
| 1 | AL 471/02 | . | . | 0.052 | 4.90 | 0.84 | 0.0098 | 0.637 | 0.113 | 0.102 | 0.054 | 15.8 | 0.053 | 0.178 | 0.077 | 0.115 | 0.058 |
| 1 | V 3015-6 | . | <0.001 | 0.080 | 0.676 | 0.778 | 0.0258 | 0.323 | 0.499 | 0.1170 | 0.155 | 12.78 | 0.1580 | 0.1250 | 0.0098 | 0.351 | 0.01048 |
| 2 | AA KA-A332 | . | . | <0.0050 | 1.0i | 0.50 | . | <0.0050 | 0.06i | 2.7i | . | 12.4 | . | 0.06i | . | <0.0050 | . |
| 1 | PY 9524 | . | . | . | 0.50 | 0.086 | . | 0.49 | 0.257 | 0.53 | (0.098) | 11.69 | (0.0984) | 0.019 | . | 0.148 | . |
| 1 | 54X G231 H2C | 0.0146 | . | 0.0469 | 0.868 | 0.131 | . | 0.159 | 0.191 | 0.171 | 0.082 | 11.6 | 0.127 | 0.085 | . | 0.397 | . |
| 1 | BAM 314a | 0.000465 | 0.0092 | 0.0574 | 2.08 | 0.992 | 0.0164 | 0.196 | 0.404 | 0.242 | 0.189 | 11.51 | 0.201 | 0.188 | 0.0277 | 1.100 | 0.0103 |
| 1 | 55X G02D YA | 0.0012 | 0.0100 | 0.063 | 3.67 | 0.591 | . | 0.309 | 0.107 | 0.109 | 0.0620 | 11.31 | 0.0747 | 0.0687 | 0.0250 | 0.153 | 0.0218 |
| 1 | AL 462/02 | 0.00050 | 0.0062 | 0.049 | 1.96 | 0.816 | 0.0113 | 0.189 | 0.402 | 0.190 | 0.210 | 11.3 | 0.0185 | 0.150 | 0.0092 | 1.21 | 0.0049 |
| 2 | AA SS-383 | <0.0005 | <0.0010 | 0.061 | 2.5i | 1.0i | 0.02i | 0.25 | 0.35 | 0.10i | 0.20i | 11.0 | 0.15i | 0.08i | 0.01i | 2.5i | <0.0030 |
| 2 | AA KA-383 | <0.0005 | <0.0010 | <0.0050 | 3.0i | 0.75i | <0.020 | 0.25i | 0.40i | 0.30i | 0.10i | 10.8 | 0.20i | 0.15i | <0.020 | 0.80i | <0.0030 |
| 2 | ALC-4145-AB | 0.0012 | 0.032 | 0.050 | 4.12 | 0.54 | 0.019 | 0.050 | 0.050 | 0.054 | 0.031 | 10.66 | 0.030 | 0.046 | 0.020 | 0.058 | 0.0028 |
| 1 | V 3301-2 | <0.0001 | <0.0005 | 0.00628 | 2.98 | 0.766 | 0.00650 | 0.382 | 0.397 | 0.0598 | 0.1142 | 10.49 | 0.0050 | 0.0180 | 0.00562 | 1.149 | 0.00462 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|---------------|---------|---------|---------|----------|---------|----------|---------|---------|---------|---------|----------|---------|----------|----------------------|
| 2 | 55X G28J 5Y | . | . | . | . | . | . | . | . | . | <0.005 | . | . | . | c 40 x 13 |
| 2 | ALC-A390.1-AA | . | . | . | 0.0016 | 0.0014 | (0.0016) | . | . | . | 0.0037 | 0.0028 | . | . | c 57 x 25 |
| 1 | V 3382-2 | . | . | <0.0002 | 0.0025 | . | . | . | <0.0001 | <0.0003 | 0.0019 | <0.0002 | . | <0.0002 | c 60 x 20 |
| 2 | AA SS-390 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.01i | <0.0010 | <0.0010 | <0.0050 | c 64x25 or 25x6 |
| 1 | 55X A30J 4G | . | . | . | . | . | . | . | . | . | (0.003) | . | . | . | c 50x17 or 40x13 |
| 1 | AL 471/02 | . | . | . | 0.0050 | . | . | . | . | . | 0.0019 | . | . | . | c 60 x 25 |
| 1 | V 3015-6 | . | . | <0.0005 | 0.0323 | 0.00479 | 0.00511 | 0.0035 | 0.00085 | 0.00093 | 0.0011 | <0.001 | . | <0.0002 | c 60 x 20 Al: [83.9] |
| 2 | AA KA-A332 | . | . | . | . | . | . | . | . | . | 0.005i | 0.003i | . | 0.02i | c 64 x 25 |
| 1 | PY 9524 | . | . | . | . | . | . | . | . | . | . | 0.0331 | . | . | c 55 x 30 |
| 1 | 54X G231 H2C | . | . | . | . | . | . | . | . | . | . | . | . | (0.0006) | c 50 x 17 |
| 1 | BAM 314a | . | 0.0028 | . | . | 0.00052 | 0.0074 | . | . | . | . | 0.0102 | . | . | HIP 50 x 40 |
| 1 | 55X G02D YA | 0.0102 | . | . | (0.0011) | 0.0032 | 0.0195 | . | . | . | 0.0100 | 0.0199 | . | . | H ~65 x ~25 |
| 1 | AL 462/02 | . | <0.0002 | <0.0005 | 0.0015 | <0.0001 | 0.0047 | <0.0002 | 0.0003 | 0.0008 | (0.003) | 0.0108 | . | 0.0087 | c 60 x 25 |
| 2 | AA SS-383 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.03i | c 64x25 or 25x6 |
| 2 | AA KA-383 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.015i | c 64 x 25 |
| 2 | ALC-4145-AB | . | . | . | 0.0023 | 0.0012 | . | . | 0.0016i | 0.0018i | 0.0033i | (0.0038) | . | 0.0031 | w 57 x 25 |
| 1 | V 3301-2 | . | . | <0.0002 | 0.00200 | 0.00195 | 0.00314 | 0.0020 | <0.0001 | <0.0001 | 0.0030 | <0.001 | . | <0.0002 | c 60 x 20 Al: [83.6] |

Cu/Si/Zn Alloys

| # | Number | Cu | Fe | Mg | Mn | Ni | Si | Sn | Zn | Units |
|---|------------|-------|------|--------|--------|--------|------|--------|------|-------------|
| 2 | 57X AlCu25 | 25.08 | 0.42 | 0.0012 | 0.0035 | 0.0017 | 5.78 | 0.0024 | 5.89 | c ~50 x ~20 |
| 2 | 57X AlCu28 | 27.78 | 0.22 | 0.0020 | 0.0032 | 0.0030 | 5.44 | 0.0023 | 5.42 | c ~50 x ~20 |

Cu/Si Alloys, chart 2 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|---------------|-----------|-----------|---------|-------|--------|----------|--------|--------|--------|---------|--------------|----------|--------|---------|--------|---------|
| 1 | 55X G02D 7P | 0.00008 | . | 0.0558 | 1.489 | 1.02 | . | 0.343 | 0.493 | 0.209 | 0.352 | 10.24 | 0.171 | 0.214 | 0.0242 | 0.908 | . |
| 1 | V 3014-4 | . | . | 0.049 | 1.02 | 0.66 | 0.023 | 0.42 | 0.76 | 0.012 | 0.0079 | 10.16 | 0.0067 | 0.13 | 0.010 | 0.33 | 0.0051 |
| 1 | V 3302-2 | <0.0001 | <0.001 | 0.001 | 3.38 | 0.684 | 0.0191 | 0.376 | 0.409 | 0.0582 | 0.123 | 10.09 | 0.0014 | 0.0103 | 0.01 | 1.086 | 0.0045 |
| 1 | V 3053-5 | . | 0.0047 | 0.0401 | 3.62 | 0.985 | 0.01065 | 0.4052 | 0.436 | 0.3001 | 0.1607 | 10.08 | 0.1001 | 0.1710 | 0.01954 | 1.109 | 0.00157 |
| 1 | V 3303-2 | . | . | 0.0008 | 3.94 | 0.664 | . | 0.363 | 0.417 | 0.0516 | 0.0967 | 9.99 | 0.0004 | 0.012 | 0.0096 | 1.18 | 0.0036 |
| 1 | V 3300-4 | (<0.0002) | (<0.0005) | 0.0107 | 2.38 | 0.724 | 0.0130 | 0.342 | 0.349 | 0.0109 | 0.0108 | 9.83 | 0.0051 | 0.0114 | 0.0112 | 0.990 | 0.0306 |
| 2 | ALC-A380.2-AD | 0.0009i | 0.0078 | 0.030 | 3.63 | 0.39 | 0.02 | 0.026i | 0.027 | 0.033 | 0.008 | 9.80 | 0.02 | 0.03 | 0.022 | 0.031 | 0.0034 |
| 2 | ALC-A333.0-AI | 0.0012 | 0.019 | 0.11 | 3.47 | 0.90 | 0.017 | 0.14 | 0.33 | 0.15 | 0.13 | 9.7 | 0.17 | 0.12 | 0.020 | 2.56 | 0.0029 |
| 2 | AA KH-380 | . | 0.15i | <0.0050 | 3.8i | 1.2i | . | 0.05i | 0.15i | 0.40 | 0.05i | 9.6i | 0.05i | 0.02i | . | 2.2i | . |
| 1 | 55X G02D XB | . | 0.0167 | 0.0308 | 2.198 | 0.762 | 0.0064 | 0.115 | 0.244 | 0.207 | 0.0319 | 9.45 | 0.0285 | 0.0553 | 0.0119 | 0.989 | 0.0109 |
| 3 | V 3414-2 | . | . | 0.0018 | 1.26 | 0.37 | . | 0.34 | 0.20 | <0.005 | 0.003 | 9.41 | . | 0.0033 | . | 9.2 | . |
| 1 | SRM 1256b | . | . | 0.0572 | 3.478 | 0.665 | (0.0183) | 0.0637 | 0.3857 | 0.4135 | 0.1075 | 9.362 | (0.0091) | 0.0859 | 0.0203 | 1.011 | . |
| 1 | V 3055-5 | . | 0.0049 | 0.0617 | 2.523 | 0.467 | 0.0303 | 0.1451 | 0.2572 | 0.1278 | 0.1278 | 9.36 | 0.0999 | 0.0315 | 0.0216 | 0.813 | 0.00355 |
| 1 | AL 432/02 | . | . | 0.021 | 0.90 | 0.18 | . | 0.80 | 0.105 | 0.75 | . | 9.33 | . | 0.039 | 0.0037 | 0.054 | . |
| 2 | AJ 068 | . | 0.0095 | 0.103 | 3.53 | 0.486 | 0.0091 | 0.138 | 0.281 | 0.103 | 0.055 | 9.30 | 0.067 | 0.056 | 0.024 | 0.308 | . |
| 1 | 55X G02D 8M | 0.0008 | . | 0.0756 | 2.481 | 0.776 | . | 0.1517 | 0.256 | 0.406 | 0.201 | 9.24 | 0.201 | 0.1535 | 0.0536 | 1.415 | . |
| 2 | AA KD-380 | . | . | 0.061 | 3.6i | 1.1i | . | 0.20i | 0.30 | 0.20i | 0.05i | 9.2i | 0.06i | 0.06i | . | 2.7i | . |
| 2 | AA KG-380 | . | 0.05i | 0.01i | 3.2i | 0.90 | . | 0.10i | 0.30 | 0.30 | 0.20i | 9.2i | 0.10i | 0.05i | . | 3.0i | . |
| 2 | ALC-A333.0-AF | <0.0001 | 0.02i | 0.015 | 3.54 | 0.85 | 0.030 | 0.082i | 0.35 | 0.13 | 0.015 | 9.13 | 0.017 | 0.032 | 0.030 | 2.34 | 0.018 |
| 2 | AA SS-354 | <0.0005 | <0.0010 | 0.01i | 1.8i | 0.15i | 0.02i | 0.55 | 0.05i | 0.01i | 0.02i | 9.0i | 0.02i | 0.12i | 0.01i | 0.05i | <0.0030 |
| 2 | AA ST2-300 | 0.0005 | 0.001i | 0.03i | 3.5i | 1.1i | 0.02i | 0.20i | 0.50 | 0.10i | 0.003i | 9.0i | 0.001i | 0.10i | 0.01i | 2.5i | 0.001i |
| 2 | AA KD-360 | . | . | 0.01i | 0.75 | 0.10i | . | 0.52 | 0.05i | 0.02i | . | 9.0i | . | 0.12i | . | 0.03i | . |
| 1 | V 3056-3 | <0.0002 | 0.0039 | 0.0575 | 1.548 | 0.2897 | 0.00999 | 0.503 | 0.2975 | 0.277 | 0.0974 | 8.96 | 0.0976 | 0.1043 | 0.0115 | 0.4820 | 0.00186 |
| 2 | AA SS-380 | <0.0005 | <0.0010 | <0.0050 | 3.6i | 0.90 | 0.02i | 0.20i | 0.40 | 0.30 | <0.0030 | 8.9i | <0.0030 | 0.08i | 0.01i | 0.35 | <0.0030 |
| 3 | V 3413-2 | . | . | 0.0029 | 1.13 | 0.24 | . | 0.29 | 0.10 | <0.005 | 0.003 | 8.91 | . | 0.012 | . | 9.7 | . |
| 1 | V 3048-10 | 0.00097 | 0.0041 | 0.0523 | 2.834 | 0.900 | 0.0321 | 0.331 | 0.369 | 0.1508 | 0.1029 | 8.84 | 0.0724 | 0.1010 | 0.0224 | 1.021 | 0.00933 |
| 1 | V 3034-4 | 0.0005 | <0.001 | 0.0065 | 2.11 | 0.68 | 0.010 | 0.57 | 0.47 | 0.22 | 0.12 | 8.82 | 0.096 | 0.10 | 0.0036 | 0.14 | 0.0029 |
| 2 | AA KF-380 | . | 0.10i | 0.02i | 2.6i | 0.70 | . | 0.30 | 0.45 | 0.10i | 0.10i | 8.4i | 0.15i | 0.11i | . | 3.5i | . |
| 3 | V 3412-2 | . | . | 0.0038 | 1.40 | 0.37 | . | 0.49 | 0.156 | <0.005 | 0.004 | 8.46 | . | 0.0038 | . | 9.2 | . |
| 3 | V 3415 | . | . | 0.010 | 1.42 | 0.52 | . | 0.36 | 0.27 | 0.18 | 0.049 | 8.24 | 0.035 | 0.055 | . | 8.0 | . |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|---------------|------------|---------|-----------|---------|---------|-----------|---------|-----------|----------|---------|-----------|---------|-----------|-----------------|
| 1 | 55X G02D 7P | . | . | 0.0010 | 0.0070 | 0.0008 | 0.0378 | . | . | . | . | 0.0021 | . | . | HIP ~65 x ~25 |
| 1 | V 3014-4 | . | . | <0.0002 | 0.0028 | 0.0020 | 0.0021 | 0.011 | 0.0005 | 0.0007 | 0.0010 | 0.0058 | . | 0.060 | c 60 x 20 |
| 1 | V 3302-2 | . | . | 0.0003 | 0.0005 | 0.0044 | 0.0051 | <0.0005 | <0.0002 | <0.0002 | 0.0021 | 0.0063 | . | <0.0002 | c 60 x 20 |
| 1 | V 3053-5 | Al: [82.5] | . | <0.0002 | 0.00634 | 0.00327 | 0.00249 | 0.00241 | 0.0016 | 0.0023 | 0.0048 | 0.0155 | . | 0.0099 | c 60 x 20 |
| 1 | V 3303-2 | . | . | 0.0003 | 0.001 | 0.0009 | 0.0012 | . | 0.0013 | 0.0012 | 0.0015 | 0.0019 | . | 0.0003 | c 60 x 20 |
| 1 | V 3300-4 | . | . | (<0.0002) | 0.0097 | 0.00102 | (<0.0005) | . | (<0.0002) | 0.0008 | 0.0027 | (<0.0005) | . | (<0.0002) | c 60 x 20 |
| 2 | ALC-A380.2-AD | . | . | 0.0027i | 0.0009i | . | . | 0.0025i | 0.0025i | 0.0021 | (0.003) | . | . | 0.0031i | c 57 x 25 |
| 2 | ALC-A333.0-AI | . | . | 0.0021 | 0.0012 | . | . | 0.0022i | 0.0028i | 0.0032i | 0.0039 | . | . | 0.0031i | c 57 x 25 |
| 2 | AA KH-380 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 1 | 55X G02D XB | 0.0046 | . | . | 0.0021 | 0.0007 | 0.0096 | . | . | . | 0.0019 | . | . | . | HIP ~65 x ~25 |
| 3 | V 3414-2 | . | . | 0.0005 | 0.008 | . | . | . | . | . | 0.007 | . | . | <0.001 | c 60 x 20 |
| 1 | SRM 1256b | . | . | . | . | . | . | . | . | . | . | . | . | 0.0173 | c 63 x 19 |
| 1 | V 3055-5 | Al: [85.9] | . | <0.0002 | 0.00170 | 0.00198 | 0.00141 | 0.00377 | 0.00046 | 0.00060 | 0.0025 | 0.0058 | . | 0.0130 | c 60 x 20 |
| 1 | AL 432/02 | . | . | . | 0.0042 | . | . | . | . | 0.0040 | 0.0006 | . | . | 0.055 | c 60 x 25 |
| 2 | AJ 068 | . | . | . | 0.0027 | . | 0.0055 | . | . | (0.0029) | 0.0049 | 0.0095 | . | (0.0065) | c 55 x 25 |
| 1 | 55X G02D 8M | . | . | . | . | 0.0029 | 0.0107 | . | . | . | . | 0.0112 | . | . | HIP ~65 x ~25 |
| 2 | AA KD-380 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 2 | AA KG-380 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 2 | ALC-A333.0-AF | . | . | . | 0.0043i | . | . | . | 0.0015i | 0.0033i | 0.001 | 0.0057 | . | 0.0029i | c 57 x 25 |
| 2 | AA SS-354 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c 64 x 25 |
| 2 | AA ST2-300 | 0.001i | . | . | . | 0.001i | 0.001i | . | . | . | . | 0.001i | . | 0.02i | c 64 x 25 |
| 2 | AA KD-360 | . | . | . | . | . | . | . | . | . | 0.003i | 0.10i | . | <0.0050 | c 64 x 25 |
| 1 | V 3056-3 | . | . | <0.0002 | 0.00435 | 0.00139 | 0.00126 | . | 0.00081 | 0.00175 | 0.00206 | 0.00218 | . | 0.0184 | c 60 x 20 |
| 2 | AA SS-380 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c 64x25 or 25x6 |
| 3 | V 3413-2 | . | . | 0.0003 | 0.0063 | . | . | . | . | . | 0.004 | . | . | <0.001 | c 60 x 20 |
| 1 | V 3048-10 | Mo: 0.057 | [85.0] | <0.0002 | 0.00400 | 0.00447 | 0.00817 | 0.00338 | <0.0002 | <0.0002 | 0.0030 | 0.0037 | . | 0.0933 | c 60 x 20 |
| 1 | V 3034-4 | . | . | <0.0002 | 0.021 | 0.0010 | 0.0052 | <0.0002 | <0.0001 | 0.0002 | 0.0012 | <0.0002 | . | 0.0005 | c 60 x 20 |
| 2 | AA KF-380 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 3 | V 3412-2 | . | . | 0.0005 | 0.0035 | . | . | . | . | . | 0.002 | . | . | <0.001 | c 60 x 20 |
| 3 | V 3415 | . | . | <0.001 | 0.0028 | . | . | . | <0.0003 | <0.0003 | 0.0006 | <0.0004 | . | 0.020 | c 60 x 20 |

Cu/Si Alloys, chart 4 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|---------|---------|------|-------|--------|-------|-------|--------|---------|------|---------|--------|--------|-------|---------|
| 2 | AA SS-308 | <0.0005 | <0.0010 | <0.0050 | 4.5i | 0.65 | 0.02i | 0.08i | 0.10i | 0.10i | <0.0030 | 5.5i | <0.0030 | 0.06i | 0.01i | 0.25 | <0.0030 |
| 2 | AA KB-355 | . | . | 0.02i | 1.5i | 0.15i | . | 0.40 | 0.15i | 0.01i | . | 5.5i | . | 0.08i | . | 0.15i | . |
| 2 | ALC-125-AQ | . | 0.02i | 0.027 | 1.22 | 0.24 | 0.011 | 0.037 | 0.038 | 0.032 | 0.018 | 5.50 | 0.025 | 0.15 | 0.016 | 0.033 | . |
| 1 | 55X G04H 8K | . | 0.011 | 0.050 | 3.56 | 0.58 | . | 0.18 | 0.358 | 0.26 | 0.154 | 5.48 | . | 0.211 | 0.0300 | 1.07 | . |
| 3 | V 3341 | . | <0.0001 | 0.0016 | 3.48 | 0.25 | . | 0.191 | 0.35 | 0.0014 | 0.0019 | 5.45 | <0.002 | 0.028 | . | 0.027 | 0.001 |
| 2 | ALC-6252-AE | . | 0.029 | 0.034 | 3.01 | 0.33 | 0.011 | 0.33 | 0.60 | 0.041 | 0.026 | 5.41 | 0.029 | 0.12 | 0.012 | 3.46 | . |
| 1 | V 3336-3 | . | <0.0002 | 0.035 | 2.98 | 0.15 | 0.010 | 0.26 | 0.19 | 0.11 | 0.062 | 5.39 | 0.04 | 0.11 | 0.0068 | 0.051 | 0.0021 |
| 3 | V 3334-2 | . | . | 0.0014 | 3.43 | 0.40 | . | 0.015 | 0.205 | 0.0024 | 0.0017 | 5.39 | 0.0004 | 0.047 | . | 0.055 | . |
| 3 | V 3338 | . | . | <0.001 | 3.44 | 0.27 | . | 0.18 | 0.34 | 0.001 | 0.003 | 5.38 | 0.004 | 0.057 | . | 0.017 | . |
| 2 | AA SS-355 | <0.0005 | <0.0010 | 0.04i | 1.3i | 0.35 | 0.02i | 0.54 | 0.08i | 0.05i | <0.0030 | 5.1i | <0.0030 | 0.12i | 0.01i | 0.10i | <0.0030 |
| 2 | AA KC-355 | . | . | 0.03i | 1.3i | 0.15i | . | 0.03i | 0.08i | 0.05i | . | 5.0i | . | 0.12i | . | 0.03i | . |
| 3 | V 3343 | . | . | 0.0014 | 3.84 | 0.36 | . | 0.244 | 0.276 | 0.0014 | 0.0017 | 4.96 | <0.002 | 0.054 | . | 0.071 | . |
| 1 | V 3335-2 | . | <0.0002 | 0.013 | 3.37 | 0.12 | 0.0087 | 0.15 | 0.11 | 0.075 | 0.040 | 4.84 | 0.029 | 0.056 | 0.0039 | 0.10 | 0.0013 |
| 1 | V 3333-2 | . | 0.016 | 0.0028 | 2.87 | 0.29 | 0.012 | 0.031 | 0.29 | 0.0054 | 0.0054 | 4.76 | <0.002 | 0.11 | 0.0037 | 0.039 | 0.0061 |
| 2 | AA KA-355 | . | . | 0.01i | 1.0i | 0.65 | . | 0.63 | 0.05i | 0.03i | . | 4.5i | . | 0.18i | . | 0.05i | . |
| 2 | ALC-127-AB | . | (0.024) | 0.022 | 4.85 | 0.39 | 0.016 | 0.030 | 0.027 | 0.027 | 0.031 | 4.59 | 0.030 | 0.033 | 0.013 | 0.035 | 0.02 |
| 2 | IMI 4P4 | . | . | 0.15 | 3.69 | 0.84 | . | 0.045 | 0.30 | 0.11 | 0.05 | 4.55 | 0.055 | 0.05 | . | 0.46 | . |
| 1 | 55X G04H 7E | . | 0.022 | 0.035 | 4.65 | 0.633 | . | 0.263 | 0.212 | 0.500 | 0.227 | 4.43 | 0.174 | 0.0476 | 0.0057 | 0.537 | . |
| 3 | AJ 036 | . | . | 0.060 | 3.82 | 0.511 | . | 0.198 | 0.464 | 0.190 | . | 4.41 | 0.054 | (0.1) | . | 0.203 | . |
| 3 | V 3332 | . | . | . | 1.55 | 0.16 | . | 0.01 | 0.030 | . | . | 3.90 | . | 0.01 | . | 0.033 | . |
| 1 | V 3032-3 | . | . | 0.020 | 1.91 | 0.53 | . | 0.38 | 0.35 | 0.20 | 0.10 | 3.87 | 0.086 | 0.082 | . | 0.1 | . |
| 2 | AA KB-213 | . | . | <0.0050 | 7.0i | 1.0i | . | 0.15i | 0.35 | 0.30i | . | 3.5i | . | 0.10i | . | 1.2i | . |
| 1 | 55X G04H 6E | . | 0.029 | 0.126 | 5.56 | 0.83 | . | 0.151 | 0.028 | 0.77 | 0.221 | 3.30 | 0.181 | 0.126 | 0.014 | 0.199 | . |
| 2 | AA SS-208 | <0.0005 | <0.0010 | <0.0050 | 4.0i | 0.60 | 0.012 | 0.05i | 0.15i | 0.08i | 0.10i | 3.0i | 0.10i | 0.12i | 0.01i | 0.15i | 0.04i |
| 1 | PY 1206 | . | . | . | 4.29 | 0.795 | . | 0.570 | 0.037 | 0.301 | 0.100 | 3.00 | 0.196 | 0.093 | . | 0.154 | . |
| 3 | V 3330 | . | . | . | 2.00 | 0.04 | . | 0.010 | 0.4 | . | . | 2.95 | . | 0.23 | . | 0.030 | . |
| 1 | V 3434-3 | . | <0.0005 | 0.0035 | 1.80 | 0.34 | 0.020 | 0.41 | 0.068 | 0.20 | 0.24 | 2.81 | 0.015 | 0.030 | 0.015 | 7.80 | 0.0066 |
| 2 | AA SS-296 | <0.0005 | <0.0010 | <0.0050 | 4.5i | 0.60 | 0.015 | 0.06i | 0.20i | 0.15i | <0.0030 | 2.8i | 0.01i | 0.10i | 0.01i | 0.25 | <0.0030 |
| 3 | V 3434-2 | . | . | 0.0020 | 1.86 | 0.32 | . | 0.38 | 0.059 | 0.20 | 0.30 | 2.80 | 0.014 | 0.027 | . | 7.82 | . |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units | |
|---|-------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------------|------------------|
| 2 | AA SS-308 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c 64 x 25 | |
| 2 | AA KB-355 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 | |
| 2 | ALC-125-AQ | . | . | . | . | . | . | . | . | . | . | . | . | . | c 57 x 25 | |
| 1 | 55X G04H 8K | . | . | . | . | . | 0.020 | . | 0.0010 | . | . | 0.102 | . | 0.0032 | c ~65 x ~25 | |
| 3 | V 3341 | . | . | <0.0005 | 0.0006 | . | . | . | . | . | 0.0013 | 0.0034 | . | <0.0001 | c 60 x 20 | |
| 2 | ALC-6252-AE | . | . | . | . | . | . | . | . | . | . | . | . | . | w 57 x 25 | |
| 1 | V 3336-3 | . | . | <0.0002 | 0.0092 | 0.0010 | 0.0002 | . | <0.0001 | 0.0026 | 0.0025 | <0.0002 | . | <0.0002 | c 60 x 20 | |
| 3 | V 3334-2 | . | . | . | . | . | . | . | . | . | . | <0.0005 | . | . | c 60 x 20 | |
| 3 | V 3338 | . | . | . | 0.0004 | . | . | . | . | . | 0.0004 | 0.023 | . | . | c 60 x 20 | |
| 2 | AA SS-355 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c 64 x 25 | |
| 2 | AA KC-355 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 | |
| 3 | V 3343 | . | . | <0.0005 | 0.0004 | . | . | . | . | . | 0.002 | 0.0114 | . | . | c 60 x 20 | |
| 1 | V 3335-2 | . | . | <0.0002 | 0.0011 | <0.0002 | <0.0002 | . | 0.0002 | 0.0032 | 0.0018 | <0.0002 | . | <0.0002 | c 60 x 20 | |
| 1 | V 3333-2 | . | . | <0.0002 | 0.0006 | <0.0002 | <0.0002 | . | <0.0001 | <0.0002 | 0.0004 | <0.0002 | . | 0.0003 | c 60 x 20 | |
| 2 | AA KA-355 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 | |
| 2 | ALC-127-AB | . | . | . | 0.006 | . | . | . | 0.0004 | . | . | . | . | . | c 57 x 25 | |
| 2 | IMI 4P4 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 58 x 7 | |
| 1 | 55X G04H 7E | . | . | . | . | 0.0073 | 0.030 | . | 0.0066 | . | . | 0.009 | . | . | c 40 x 15 | |
| 3 | AJ 036 | . | . | . | 0.0012 | . | . | . | . | 0.0004 | 0.0003 | 0.0001 | . | . | c 55 x 25 | |
| 3 | V 3332 | . | . | . | . | . | . | . | . | . | 0.0005 | . | . | . | c 60 x 20 | |
| 1 | V 3032-3 | . | . | . | 0.0029 | . | . | . | . | . | . | <0.0006 | <0.001 | . | 0.022 | c 60 x 20 |
| 2 | AA KB-213 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | 55X G04H 6E | . | . | . | . | 0.0039 | 0.0024 | . | 0.019 | . | . | . | . | . | . | c 50x20 or 40x15 |
| 2 | AA SS-208 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 | |
| 1 | PY 1206 | . | . | . | . | . | . | . | . | . | . | 0.025 | . | . | c 55 x 30 | |
| 3 | V 3330 | . | . | . | . | . | . | . | . | . | 0.0007 | . | . | . | c 60 x 20 | |
| 1 | V 3434-3 | . | . | <0.0002 | 0.0017 | 0.0015 | . | . | . | 0.0006 | 0.0014 | <0.0005 | . | 0.012 | c 60 x 20 | |
| 2 | AA SS-296 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 | |
| 3 | V 3434-2 | . | . | <0.0005 | 0.0006 | . | . | . | . | . | 0.0005 | . | . | . | c 60 x 20 | |

Cu/Si Alloys, chart 5 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|---------------|----------|---------|---------|-------|-------|--------|--------|--------|--------|---------|--------------|---------|--------|--------|--------|----------|
| 2 | ALC-224-AC | . | 0.019 | 0.027 | 4.26 | 0.53 | 0.016 | 0.022 | 0.042 | 0.030 | 0.021 | 2.64 | 0.024 | 0.15 | 0.014 | 0.039 | . |
| 1 | 57X G12H 1C | 0.0019 | . | 0.069 | 5.54 | 0.88 | . | 0.40 | 0.032 | 0.31 | 0.016 | 2.52 | 0.095 | 0.114 | 0.15 | 1.03 | 0.07 |
| 2 | ALC-6205-AA | . | 0.036 | 0.05 | 20.4 | 1.25 | . | . | 1.05 | 0.051 | 0.04 | 2.45 | 0.052 | . | . | 5.55 | . |
| 3 | V 3041-2 | . | . | 0.002 | 2.99 | 0.79 | . | 0.58 | 0.55 | 0.41 | 0.16 | 2.14 | 0.18 | 0.15 | . | 0.49 | . |
| 1 | V 3432-2 | . | . | 0.006 | 4.16 | 0.80 | . | 0.26 | 0.41 | 0.31 | 0.20 | 2.00 | 0.096 | 0.057 | . | 4.94 | . |
| 1 | V 3031-2 | <0.0001 | <0.0005 | 0.051 | 1.31 | 0.39 | 0.0095 | 0.26 | 0.22 | 0.13 | 0.067 | 1.97 | 0.063 | 0.056 | 0.003 | 0.07 | 0.0016 |
| 3 | V 3331 | . | . | . | 3.8 | 0.08 | . | 0.01 | 0.095 | . | . | 1.9 | . | 0.14 | . | 0.04 | . |
| 1 | V 3434-3 | . | <0.0005 | 0.0035 | 1.80 | 0.34 | 0.020 | 0.41 | 0.068 | 0.20 | 0.24 | 2.81 | 0.015 | 0.030 | 0.015 | 7.80 | 0.0066 |
| 1 | 57X G12H 6A | (0.0003) | . | 0.054 | 8.28 | 0.85 | . | 0.292 | 0.223 | 0.387 | 0.110 | 1.63 | 0.108 | 0.108 | 0.0143 | 6.74 | 0.0262 |
| 1 | V 3431-2 | . | . | 0.0061 | 4.21 | 0.98 | . | 0.21 | 0.32 | 0.11 | 0.062 | 1.63 | 0.15 | 0.0502 | . | 3.08 | . |
| 1 | 57X G12H 3C | 0.0016 | . | 0.086 | 8.69 | 0.350 | . | 0.296 | 0.117 | 0.479 | 0.092 | 1.48 | 0.132 | 0.196 | 0.0126 | 0.554 | (0.0006) |
| 1 | AL 666/01 | . | . | 0.17 | 1.47 | 0.52 | . | 0.80 | 0.60 | . | . | 1.41 | . | 0.051 | 0.10 | . | . |
| 1 | 56X G2000J 4C | . | 0.0049 | 0.053 | 5.02 | 0.705 | . | 0.505 | 0.271 | 0.089 | 0.879 | 1.33 | 0.0092 | 0.135 | 0.0132 | 0.0131 | 0.105 |
| 2 | AA KB-295 | . | . | <0.0050 | 4.91 | 0.35 | . | 0.011 | 0.031 | 0.081 | 0.051 | 1.31 | 0.011 | 0.171 | . | 0.051 | . |
| 1 | 57X G12H 7A | . | . | 0.0221 | 4.75 | 0.369 | . | 0.020 | 0.0327 | 0.0380 | 0.030 | 1.21 | 0.0307 | 0.0565 | 0.0111 | 0.384 | 0.0328 |
| 1 | AL 225/01 | . | . | 0.100 | 4.78 | 0.58 | . | 0.82 | 1.00 | 0.041 | . | 1.10 | . | 0.115 | 0.050 | 0.150 | 0.040 |
| 3 | V 3430-2 | . | . | 0.0078 | 4.69 | 1.20 | . | 0.094 | 0.10 | 0.055 | 0.11 | 1.10 | 0.18 | 0.038 | . | 0.98 | . |
| 2 | AA SS-2014 | <0.0005 | <0.0010 | 0.041 | 4.51 | 0.50 | 0.021 | 0.55 | 0.80 | 0.041 | <0.0030 | 1.01 | <0.0010 | 0.031 | 0.011 | 0.121 | <0.0030 |
| 3 | AJ 011 | . | . | 0.052 | 4.38 | 0.451 | . | 0.477 | 0.798 | . | . | 0.96 | . | 0.082 | . | 0.105 | . |
| 1 | V 2416-3 | 0.00099 | 0.0098 | 0.0604 | 0.544 | 0.697 | 0.0113 | 0.1055 | 1.51 | 0.0543 | 0.0085 | 0.669 | 0.00643 | 0.148 | 0.0278 | 0.1281 | 0.00646 |
| 1 | V 3433-2 | . | . | 0.0032 | 3.02 | 0.47 | . | 0.24 | 0.51 | 0.47 | 0.27 | 0.65 | 0.049 | 0.012 | . | 6.40 | . |
| 2 | 57X G12H 5G | 0.003 | . | 0.016 | 12.2 | 0.19 | 0.017 | 0.028 | 0.073 | 0.11 | 0.068 | 0.55 | 0.067 | 0.036 | 0.033 | 0.072 | 0.045 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Tl | Units |
|---|---------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------------------|
| 2 | ALC-224-AC | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 57 x 25 |
| 1 | 57X G12H 1C | . | . | . | . | 0.012 | 0.113 | . | 0.008 | . | . | . | . | . | . | c ~40 x ~15 |
| 2 | ALC-6205-AA | . | . | . | (0.02) | . | . | . | . | . | . | . | . | . | . | w 57 x 10 |
| 3 | V 3041-2 | . | . | . | 0.005 | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | V 3432-2 | . | . | <0.0004 | 0.00067 | . | . | . | . | . | <0.0004 | . | . | . | . | c 60 x 20 |
| 1 | V 3031-2 | . | . | <0.0002 | 0.0023 | <0.0002 | 0.0002 | . | <0.0001 | <0.0002 | <0.001 | <0.0005 | . | 0.0002 | . | c 60 x 20 |
| 3 | V 3331 | . | . | . | . | . | . | . | . | . | . | . | . | 0.0008 | . | c 60 x 20 |
| 1 | V 3434-3 | . | . | <0.0002 | 0.0017 | 0.0015 | . | . | . | 0.0006 | 0.0014 | <0.0005 | . | 0.012 | . | c 60 x 20 |
| 1 | 57X G12H 6A | . | . | . | . | 0.0028 | 0.0247 | . | . | . | . | . | . | . | . | c 50 x ~20 |
| 1 | V 3431-2 | . | . | <0.0002 | 0.0007 | . | . | . | . | . | <0.0007 | . | . | . | . | c 60 x 20 |
| 1 | 57X G12H 3C | . | . | . | . | 0.0055 | 0.039 | . | . | . | . | . | . | . | . | c 50 x 20 |
| 1 | AL 666/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | 56X G2000J 4C | 0.0122 | . | . | . | . | 0.0247 | . | 0.0025 | . | . | . | . | . | . | c 50x20 or 40x15 |
| 2 | AA KB-295 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | 57X G12H 7A | . | . | 0.0093 | . | 0.0002 | 0.0483 | . | . | . | . | . | . | . | . | c 50 x 15 |
| 1 | AL 225/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 3 | V 3430-2 | . | . | <0.0002 | 0.0005 | . | . | . | . | . | 0.0005 | . | . | . | . | c 60 x 20 |
| 2 | AA SS-2014 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | c 64 x 25 |
| 3 | AJ 011 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 25 |
| 1 | V 2416-3 | Al:[96.0] | 0.00188 | 0.00013 | 0.00071 | 0.00447 | 0.00244 | 0.00229 | 0.00090 | 0.00016 | 0.00220 | 0.0089 | . | <0.0002 | 0.00194 | c 60 x 20 |
| 1 | V 3433-2 | . | . | <0.0002 | 0.0005 | . | . | . | . | . | <0.001 | . | . | . | . | c 60 x 20 |
| 2 | 57X G12H 5G | . | . | . | . | 0.023 | 0.054 | . | . | . | . | 0.066 | . | . | . | c 50 x 20 |

Fe Alloys, chart 1 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|----------|--------|----------|-------------|---------|--------|--------|-----------|--------|-------|--------|--------|-------|--------|--------|
| 2 | ALC-5100-BS | . | 0.040 | 0.031 | 0.06 | 3.9 | 0.032 | 0.026 | 0.041 | 0.046 | 0.035 | 0.20 | 0.043 | 0.038 | 0.013 | 0.040 | 0.02 |
| 2 | AA SS-A2800 | . | . | . | 0.031 | 3.00 | . | . | 0.0174 | 0.030 | . | 0.25 | . | . | . | . | . |
| 1 | AL 161/01 | . | . | 0.012 | 0.023 | 2.66 | . | 0.024 | 0.035 | 0.013 | 0.0110 | 0.12 | 0.010 | 0.023 | 0.022 | 0.012 | 0.010 |
| 2 | AA FE-12 | . | . | . | (0.01) | 2.51 | . | . | . | . | . | (0.1) | . | . | . | . | . |
| 2 | AA FE-11 | . | . | . | . | 2.02 | . | . | . | . | . | . | . | . | . | . | . |
| 1 | AL 158/03 | . | . | 0.0070 | 0.0120 | 1.98 | 0.010 | 0.020 | 0.021 | 0.0085 | 0.007 | 0.053 | 0.0050 | 0.0130 | 0.013 | 0.0075 | 0.0055 |
| 2 | ALC-8007-AG | 0.0023 | 0.017 | 0.030 | 0.051 | 1.63 | 0.018 | 0.0011 | 0.47 | 0.029 | 0.016 | 0.20 | 0.0170 | 0.014 | 0.019 | 1.10 | 0.019 |
| 2 | ALC-8007-AE | 0.0021i | 0.020 | 0.031 | 0.049 | 1.61 | 0.031 | 0.014 | 0.56 | 0.029 | 0.015 | 0.025 | 0.018 | 0.011 | 0.020 | 1.11 | . |
| # | Number | B | Ca | Cd | Li | Na | P | Sb | Sr | Units | | | | | | | |
| 2 | ALC-5100-BS | . | (0.0033) | . | (0.0006) | (0.0006) | (0.002) | . | . | w 57 x 25 | | | | | | | |
| 2 | AA SS-A2800 | . | . | . | . | . | . | . | . | c 64 x 25 | | | | | | | |
| 1 | AL 161/01 | . | . | . | . | . | 0.0053 | . | . | c 65 x 25 | | | | | | | |
| 2 | AA FE-12 | . | . | . | . | . | . | . | . | c 64 x 25 | | | | | | | |
| 2 | AA FE-11 | . | . | . | . | . | . | . | . | c 64 x 25 | | | | | | | |
| 1 | AL 158/03 | 0.0010 | . | . | . | . | . | . | . | c 65 x 25 | | | | | | | |
| 2 | ALC-8007-AG | . | 0.0002 | . | 0.0002 | <0.0001 | 0.002 | . | 0.0004 | w 57 x 25 | | | | | | | |
| 2 | ALC-8007-AE | . | 0.0027i | . | 0.0007i | 0.0018i | 0.0032 | . | . | w 57 x 25 | | | | | | | |

Mg Alloys, chart 2 of 4

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|---------|----------|---------|---------|-----------|---------|--------------|---------|---------|-----------|------------|----------|---------|----------|---------|---------------|
| 1 | AL 537/02 | 0.0005 | 0.0012 | 0.0104 | 0.0189 | 0.330 | 0.0298 | 4.76 | 0.450 | 0.0066 | 0.0023 | 0.224 | 0.0015 | 0.0036 | 0.0102 | 0.0154 | 0.0041 |
| 2 | AA WA-5056 | 0.0001 | . | 0.11i | 0.08i | 0.20i | 0.02i | 4.7i | 0.10i | 0.05i | . | 0.15i | . | <0.0050 | 0.01i | 0.05i | . |
| 2 | AA SS-5182 | <0.0005 | <0.0010 | 0.03i | 0.05i | 0.20i | 0.02i | 4.6i | 0.35 | 0.02i | 0.001i | 0.15i | <0.0010 | 0.03i | 0.01i | 0.05i | <0.0030 |
| 3 | V 2503-1 | 0.0026 | . | 0.013 | 0.013 | 0.30 | . | 4.60 | 0.20 | <0.003 | 0.0023 | 0.15 | . | 0.019 | . | 0.031 | . |
| 2 | AA KB-514 | 0.003i | . | <0.0050 | 0.02i | 0.10i | . | 4.5i | 0.20i | <0.0050 | 0.06i | 0.25 | 0.06i | 0.05i | . | <0.0050 | 0.06i |
| 2 | AA SS-5082 | <0.0005 | <0.0010 | 0.04i | 0.04i | 0.25 | 0.015 | 4.5i | 0.04i | 0.01i | <0.0030 | 0.12i | <0.0010 | 0.02i | 0.01i | 0.04i | <0.0030 |
| 1 | V 2507-2 | 0.0050 | 0.027 | 0.011 | 0.054 | 0.16 | 0.012 | 4.57 | 0.10 | 0.0021 | 0.0068 | 0.22 | 0.0003 | 0.0096 | 0.0027 | 0.21 | 0.0010 |
| 2 | AA WB-5182 | 0.001i | . | 0.01i | 0.07i | 0.10i | 0.02i | 4.4i | 0.45 | 0.04i | 0.006i | 0.08i | . | 0.01i | 0.01i | 0.10i | . |
| 1 | SRM 1241c | . | . | 0.0343 | 0.0497 | 0.1997 | 0.0184 | 4.498 | 0.3792 | 0.0198 | (0.00052) | 0.1601 | (0.0002) | 0.0334 | 0.0174 | 0.0506 | (0.002) |
| 3 | V 2501-1 | 0.0008 | . | 0.041 | 0.044 | 0.236 | . | 4.47 | 0.14 | . | . | 0.19 | . | 0.030 | . | 0.017 | . |
| 1 | AL 536/01 | . | (0.0019) | 0.055 | 0.031 | 0.24 | . | 4.40 | 0.305 | 0.010 | . | 0.120 | . | 0.049 | . | 0.052 | . |
| 1 | AL 532/01 | 0.00050 | . | 0.0050 | 0.012 | 0.11i | 0.0015 | 4.33 | 0.0009 | 0.0043 | 0.0044 | 0.009 | 0.0038 | 0.0005 | 0.0003 | 0.0008 | <0.0002 |
| 2 | AA SS-514 | <0.0005 | <0.0010 | 0.03i | 0.05i | 0.25 | 0.015 | 4.1i | 0.12i | 0.03i | <0.0030 | 0.15i | <0.0030 | 0.12i | 0.01i | 0.08i | <0.0030 |
| 1 | 511X G5083A | . | 0.0016 | 0.237 | 0.042 | 0.363 | . | 3.98 | 0.592 | 0.0094 | 0.0069 | 0.22 | 0.0015 | 0.0294 | 0.0092 | 0.0488 | 0.0011 |
| 3 | AL 516/02 | 0.0005 | . | 0.001 | 0.001 | 0.005 | 0.001 | 3.8 | 0.001 | 0.002 | 0.001 | 0.002 | 0.001 | <0.0005 | <0.001 | 0.002 | 0.001 |
| 2 | ALC-5042-AC | 0.0013 | 0.009 | 0.060 | 0.031i | 0.25 | 0.020 | 3.74 | 0.35 | 0.031 | 0.0081 | 0.15 | 0.015 | 0.030 | 0.018 | 0.030 | 0.0016 |
| 1 | AL 531/02 | 0.0021 | 0.0183 | 0.052 | 0.078 | 0.149 | . | 3.72 | 0.249 | 0.053 | 0.0104 | 0.140 | . | 0.101 | 0.0083 | 0.154 | . |
| 2 | AA SS-5154 | <0.0005 | <0.0010 | 0.25 | 0.05i | 0.25 | 0.015 | 3.6i | 0.03i | 0.03i | <0.0030 | 0.15i | <0.0010 | 0.08i | 0.01i | 0.05i | <0.0030 |
| 1 | 511X G05H 2H | 0.0018 | . | 0.172 | 0.188 | 0.641 | . | 3.58 | 0.124 | 0.157 | 0.049 | 0.299 | 0.0495 | 0.068 | 0.0248 | 0.372 | 0.0105 |
| 2 | AA SS-5042 | <0.0005 | <0.0010 | <0.0050 | 0.03i | 0.23i | 0.015 | 3.5i | 0.30 | <0.0050 | <0.0030 | 0.10i | <0.0010 | 0.02i | 0.01i | 0.01i | <0.0030 |
| 2 | AA KA-514 | 0.001i | . | <0.0050 | 0.10i | 0.35 | . | 3.5i | 0.05i | <0.0050 | 0.03i | 0.08i | 0.03i | 0.16i | . | <0.0050 | . |
| 3 | AJ 018 | 0.0023 | . | 0.236 | 0.019 | 0.198 | . | 3.36 | 0.054 | 0.046 | . | 0.194 | . | 0.035 | . | 0.035 | . |
| 1 | BAM 313a | 0.00054 | 0.0092 | 0.117 | 0.0932 | 0.388 | 0.01067 | 3.35 | 0.486 | 0.0296 | 0.00380 | 0.346 | 0.0193 | 0.099 | 0.0308 | 0.1481 | 0.0355 |
| 1 | V 2301-1 | 0.0012 | <0.0002 | 0.043 | 0.11 | 0.21 | 0.0088 | 3.24 | 0.11 | 0.0021 | 0.0029 | 0.20 | 0.0013 | 0.038 | 0.0032 | 0.13 | 0.0037 |
| 2 | ALC-X5754-AE | 0.0011 | 0.0045 | 0.051 | 0.057 | 0.35 | 0.029 | 3.18 | 0.45 | 0.031 | 0.0038 | 0.38 | 0.026 | 0.053 | 0.021 | 0.056 | 0.0024 |
| 1 | AL 525/04 | 0.00053 | 0.024 | 0.327 | 0.066 | 0.313 | 0.021 | 2.87 | 0.285 | 0.028 | 0.021 | 0.220 | 0.016 | 0.029 | 0.018 | 0.035 | 0.0058 |
| 2 | AA WB-5052 | . | . | 0.15i | 0.02i | 0.30 | . | 2.8i | 0.10i | 0.03i | . | 0.08i | . | 0.03i | . | 0.03i | . |
| 2 | AA ST2-5052 | 0.0002 | 0.02i | 0.25 | 0.10i | 0.30 | 0.025 | 2.7i | 0.05i | 0.02i | 0.02i | 0.15i | 0.02i | 0.03i | 0.015 | 0.03i | 0.004i |
| 1 | V 2302-1 | 0.0021 | 0.0001 | 0.10 | 0.088 | 0.24 | 0.010 | 2.78 | 0.22 | 0.0009 | 0.0037 | 0.29 | <0.001 | 0.033 | 0.0029 | 0.22 | 0.0059 |
| 3 | V 2302-2 | 0.0020 | . | 0.10 | 0.086 | 0.24 | . | 2.76 | 0.23 | . | 0.0055 | 0.30 | . | 0.032 | . | 0.23 | . |
| 1 | V 2302-4 | 0.0021 | . | 0.1 | 0.082 | 0.24 | 0.016 | 2.72 | 0.24 | 0.0052 | 0.0095 | 0.30 | 0.0078 | 0.035 | 0.0053 | 0.21 | 0.0053 |
| 2 | ALC-5052-AN | 0.0011 | 0.0077 | 0.26 | 0.080 | 0.25 | 0.019 | 2.68 | 0.073 | 0.028 | 0.0070 | 0.20 | 0.018 | 0.059 | 0.019 | 0.032 | 0.0028 |
| 2 | AA SS-5052 | <0.0005 | <0.0010 | 0.25 | 0.06i | 0.20i | 0.02i | 2.6i | 0.05i | 0.05i | <0.0030 | 0.15i | <0.0010 | 0.01i | 0.01i | 0.08i | <0.0030 |
| # | Number | Ag | As | B | Ca | Cd | Co | Hg | In | Li | Na | P | Sb | Sc | Sr | Units | |
| 1 | AL 537/02 | . | . | . | 0.0023 | 0.0011 | . | . | . | 0.00041 | 0.0023 | . | . | . | 0.0007 | c | 60 x 25 |
| 2 | AA WA-5056 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA SS-5182 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64x25 or 25x6 |
| 3 | V 2503-1 | . | . | . | 0.0002 | . | . | . | . | 0.0045 | 0.0031 | . | . | . | . | c | 60 x 20 |
| 2 | AA KB-514 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA SS-5082 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 1 | V 2507-2 | . | . | <0.0003 | 0.0026 | <0.0002 | <0.0002 | . | . | 0.0026 | 0.0004 | . | . | . | . | c | 60 x 20 |
| 2 | AA WB-5182 | . | . | . | . | 0.001i | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | SRM 1241c | . | . | . | . | (0.00062) | . | . | . | . | . | . | . | . | (0.0002) | c | 63 x 19 |
| 3 | V 2501-1 | . | . | . | 0.0002 | . | . | . | . | 0.0001 | 0.0012 | . | . | . | . | c | 60 x 20 |
| 1 | AL 536/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 1 | AL 532/01 | . | . | . | . | . | . | . | . | . | (0.006) | 0.0012 | . | . | . | c | 60 x 25 |
| 2 | AA SS-514 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 1 | 511X G5083A | . | . | . | . | . | . | . | . | . | . | . | . | . | . | w | ~50 x ~20 |
| 3 | AL 516/02 | . | . | . | 0.0010 | 0.001 | 0.0006 | . | . | 0.0002 | 0.0001 | . | . | . | . | C | 60 x 25 |
| 2 | ALC-5042-AC | . | . | . | 0.0036i | 0.0012 | . | . | . | 0.0043i | 0.0029i | 0.0008 | 0.0012 | . | 0.0028i | w | 57 x 25 |
| 1 | AL 531/02 | . | . | . | . | . | . | . | . | 0.00064 | 0.0011 | . | . | . | . | c | 60 x 25 |
| 2 | AA SS-5154 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 1 | 511X G05H 2H | . | . | . | 0.0083 | 0.0023 | 0.0031 | . | . | . | . | . | . | . | . | c | ~50 x ~15 |
| 2 | AA SS-5042 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AA KA-514 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 3 | AJ 018 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 25 |
| 1 | BAM 313a | . | . | . | 0.00104 | 0.00047 | 0.00037 | . | . | 0.00113 | 0.0025 | Mo:0.00048 | 0.00061 | . | . | c | 65 x 30 |
| 1 | V 2301-1 | <0.0002 | . | <0.0002 | 0.0006 | <0.0001 | <0.0003 | <0.0002 | <0.0001 | 0.0009 | 0.0019 | 0.0005 | <0.0005 | <0.0002 | <0.0001 | c | 60 x 20 |
| 2 | ALC-X5754-AE | . | . | . | 0.0024i | 0.0009 | . | . | . | 0.0036i | 0.0045i | 0.0018 | 0.0018 | . | 0.0017i | w | 57 x 25 |
| 1 | AL 525/04 | . | . | . | 0.0007 | 0.0008 | . | . | . | 0.0015 | 0.0013 | . | (0.004) | . | . | c | 60 x 25 |
| 2 | AA WB-5052 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA ST2-5052 | . | . | <0.0010 | 0.002i | 0.0005 | 0.0005 | . | . | 0.001i | 0.0015 | 0.0005 | 0.003i | . | 0.0012 | c | 64 x 25 |
| 1 | V 2302-1 | <0.0001 | . | <0.001 | 0.0007 | 0.0009 | <0.0002 | <0.0001 | . | <0.0001 | <0.001 | <0.001 | <0.0002 | <0.0001 | <0.0002 | c | 60 x 20 |
| 3 | V 2302-2 | . | . | . | 0.0005 | 0.0024 | . | . | . | 0.0001 | 0.0002 | . | . | . | . | c | 60 x 20 |
| 1 | V 2302-4 | . | . | <0.0002 | 0.0021 | 0.0076 | 0.0047 | 0.0072 | . | 0.0002 | 0.0003 | . | . | . | . | c | 60 x 20 |
| 2 | ALC-5052-AN | . | . | . | 0.0038 | 0.0011 | . | . | . | 0.0038i | 0.0029i | 0.0018 | 0.0028 | . | 0.0033 | w | 57 x 25 |
| 2 | AA SS-5052 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64x25 or 25x6 |

Mg Alloys, chart 3 of 4

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|---------|---------|---------|---------|---------|---------|--------------|---------|---------|---------|---------|---------|---------|---------|--------|-----------|
| 2 | AA SS-5252 | <0.0005 | <0.0010 | <0.0050 | 0.04i | 0.05i | 0.02i | 2.5i | 0.01i | <0.0050 | <0.0030 | 0.03i | <0.0010 | 0.02i | <0.0050 | 0.01i | <0.0030 |
| 2 | AJ 066 | 0.0015 | . | 0.314 | 0.047 | 0.201 | . | 2.46 | 0.049 | 0.023 | . | 0.146 | . | 0.02 | . | 0.022 | . |
| 1 | AL 514/02 | 0.0020 | 0.0019 | 0.0055 | 0.0110 | 0.0629 | 0.0081 | 2.42 | 0.0305 | 0.0062 | 0.0035 | 0.0660 | 0.0032 | 0.0241 | 0.0100 | 0.0219 | 0.0050 |
| 2 | ALC-5251-AD | 0.0013 | 0.015i | 0.031 | 0.089 | 0.33 | 0.021 | 2.30 | 0.33 | 0.020 | 0.015 | 0.21 | 0.016 | 0.030 | 0.021 | 0.047 | 0.0031 |
| 2 | AA WA-5052 | . | . | 0.30 | 0.10i | 0.10i | . | 2.2i | 0.02i | 0.01i | . | 0.25 | . | <0.0050 | . | 0.12i | . |
| 1 | V 2300-1 | 0.0033 | <0.0001 | 0.20 | 0.069 | 0.39 | 0.0096 | 2.10 | 0.38 | 0.0036 | 0.0023 | 0.49 | 0.0007 | 0.0069 | 0.0024 | 0.20 | 0.0033 |
| 1 | PY 6036 | 0.00096 | . | 0.1248 | 0.0065 | 0.276 | . | 2.07 | 0.383 | 0.0487 | 0.0195 | 0.102 | 0.0023 | 0.0527 | . | 0.0936 | 0.0504 |
| 2 | ALC-5017-AB | 0.0035 | 0.013 | 0.018 | 0.40 | 0.27 | 0.020 | 2.01 | 0.28 | 0.030 | 0.020 | 0.28 | 0.021 | 0.056 | 0.015 | 0.026 | 0.014 |
| 3 | V 1113 | . | . | . | 0.0001 | 0.0016 | . | 2.01 | 0.0001 | . | . | 0.0035 | . | . | . | 0.0012 | . |
| 1 | AL 524/04 | 0.0010 | 0.0010 | 0.176 | 0.100 | 0.500 | . | 2.00 | 0.199 | 0.0290 | 0.0068 | 0.403 | 0.0025 | 0.0614 | 0.0072 | 0.0586 | 0.0042 |
| 1 | 511X G05H 1J | . | . | 0.245 | 0.319 | 0.73 | 0.0096 | 1.99 | 0.111 | 0.120 | 0.0132 | 0.397 | 0.203 | 0.201 | 0.071 | 0.230 | 0.0022 |
| 2 | AA ST1-5000 | 0.0005 | 0.001i | 0.15i | 0.05i | 0.30 | 0.02i | 1.8i | 0.05i | 0.03i | 0.003i | 0.15 | 0.001i | 0.02i | 0.01i | 0.04i | 0.001i |
| 3 | V 1107 | . | . | . | 0.0005 | 0.026 | . | 1.83 | 0.0009 | . | . | 0.017 | . | . | . | 0.0025 | . |
| 1 | 511X G6065A | 0.0011 | 1.27 | 0.0759 | 0.214 | 0.74 | . | 1.180 | 0.131 | 0.0144 | 0.0310 | 0.495 | 0.0251 | 0.112 | . | 0.164 | 0.144 |
| 1 | AL 523/01 | . | 0.0090 | 0.105 | 0.0011 | 0.084 | . | 1.51 | 0.150 | 0.0097 | 0.020 | 0.087 | . | 0.110 | 0.0172 | 0.012 | . |
| 2 | AA SS-5050 | <0.0005 | <0.0010 | 0.03i | 0.05i | 0.45 | 0.015 | 1.4i | 0.04i | 0.03i | <0.0030 | 0.18i | <0.0010 | 0.02i | 0.01i | 0.04i | <0.0030 |
| 3 | V 1305 | . | . | . | 0.0018 | 0.025 | . | 1.49 | 0.0095 | . | . | 0.072 | . | 0.007 | . | 0.018 | . |
| 3 | V 1112 | . | . | . | 0.0002 | 0.004 | . | 1.47 | 0.0002 | . | . | 0.0033 | . | . | . | 0.002 | . |
| 1 | V 2009-2 | . | . | 0.0016 | 0.014 | 0.29 | 0.020 | 1.39 | 0.0090 | 0.0033 | 0.0021 | 0.34 | 0.0016 | 0.0033 | 0.0048 | 0.021 | 0.0050 |
| 3 | V 2009 | . | . | 0.0006 | 0.0035 | 0.28 | . | 1.39 | 0.0075 | . | . | 0.35 | . | 0.0025 | . | 0.020 | . |
| 1 | PY 2330 | 0.00295 | . | 0.0002 | 0.1484 | 0.039 | . | 1.324 | 0.2494 | 0.0015 | 0.0213 | 0.029 | 0.0512 | 0.1115 | 0.0190 | 0.1485 | 0.0868 |
| 3 | V 1106 | . | . | . | 0.0018 | 0.015 | . | 1.25 | 0.0006 | . | . | 0.014 | . | . | . | 0.003 | . |
| 2 | AA SS-5357 | <0.0005 | <0.0010 | 0.01i | 0.08i | 0.08i | 0.015 | 1.1i | 0.25 | 0.01i | <0.0030 | 0.05i | <0.0010 | 0.01i | 0.01i | 0.02i | <0.0030 |
| 3 | V 1102 | . | . | . | 0.011 | 0.014 | . | 1.10 | 0.0012 | . | . | 0.02 | . | 0.009 | . | 0.037 | . |
| 3 | V 2008 | . | . | 0.0011 | 0.045 | 0.15 | . | 1.06 | 0.035 | 0.0007 | . | 0.21 | . | 0.027 | . | 0.055 | . |
| 1 | PY 6033 | 0.00002 | . | 0.0010 | 0.0674 | 0.014 | . | 1.05 | 0.153 | 0.0181 | 0.0135 | 0.019 | 0.0205 | 0.0027 | . | 0.2136 | 0.0726 |
| 3 | V 1304 | . | . | . | 0.0018 | 0.024 | . | 1.03 | 0.0095 | . | . | 0.066 | . | 0.009 | . | 0.017 | . |
| 3 | V 1114 | . | . | <0.0005 | 0.0002 | 0.002 | . | 1.02 | 0.0003 | <0.0005 | . | 0.021 | . | <0.0005 | . | 0.0046 | . |
| 1 | AL 522/03 | 0.0039 | . | 0.0158 | 0.0300 | 0.197 | 0.0051 | 1.01 | 0.102 | 0.0103 | 0.0039 | 0.203 | . | 0.0104 | 0.0027 | 0.0219 | . |
| 1 | PY 2340 | 0.00127 | . | 0.0510 | 0.1007 | 0.189 | . | 1.009 | 0.0016 | 0.0208 | 0.0302 | 0.097 | 0.0996 | 0.0562 | 0.0349 | 0.0979 | 0.0455 |
| 2 | ALC-5005-AG | 0.0012 | 0.0084 | 0.0303 | 0.088 | 0.59 | 0.023 | 1.00 | 0.045 | 0.0254 | 0.0076 | 0.217 | 0.021 | 0.024 | 0.024 | 0.0253 | 0.0023 |
| 1 | BAM 310 | . | . | 0.0009 | 0.00169 | 0.0705 | . | 0.994 | 0.00307 | 0.00244 | . | 0.0797 | . | 0.00301 | . | 0.0086 | . |
| 2 | ALC-5457-AB | 0.0013 | 0.0081 | 0.026 | 0.16 | 0.12 | 0.020 | 0.99 | 0.42 | 0.027 | 0.0078 | 0.100i | 0.021 | 0.028i | 0.022 | 0.030i | 0.0030 |
| # | Number | Ag | As | B | Ca | Cd | Co | Hg | In | Li | Na | P | Sb | Sc | Sr | Units | |
| 2 | AA SS-5252 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AJ 066 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 25 |
| 1 | AL 514/02 | . | <0.0001 | . | . | 0.0020 | . | . | . | . | 0.0014 | . | 0.0030 | . | . | c | 60 x 25 |
| 2 | ALC-5251-AD | . | . | . | 0.0031i | 0.0015 | . | . | . | 0.0026i | 0.0026i | 0.001 | 0.0016 | . | 0.0022i | w | 57 x 25 |
| 2 | AA WA-5052 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | V 2300-1 | <0.0001 | . | 0.0001 | 0.0006 | 0.0001 | 0.0002 | <0.0001 | <0.0002 | 0.0006 | 0.0012 | 0.0004 | <0.0002 | <0.0002 | <0.0001 | c | 60 x 20 |
| 1 | PY 6036 | . | . | . | . | . | . | . | . | . | 0.00034 | . | . | . | . | c | 55 x 30 |
| 2 | ALC-5017-AB | . | . | . | 0.0054 | . | . | . | . | 0.0046i | 0.0042 | 0.001 | . | . | . | w | 57 x 25 |
| 3 | V 1113 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | AL 524/04 | . | . | . | 0.0020 | 0.0022 | . | . | . | 0.00024 | 0.0029 | 0.0011 | 0.0007 | . | . | c | 60 x 25 |
| 1 | 511X G05H 1J | . | . | . | 0.0012 | 0.0071 | . | . | . | . | . | . | . | . | . | H | ~65 x ~25 |
| 2 | AA ST1-5000 | <0.0010 | . | <0.0005 | . | 0.001i | 0.001i | 0.003i | . | . | . | . | 0.001i | . | 0.001i | c | 64 x 25 |
| 3 | V 1107 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | 511X G6065A | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 50 x 17 |
| 1 | AL 523/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | AA SS-5050 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 3 | V 1305 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 1112 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | V 2009-2 | . | . | 0.0001 | 0.0010 | 0.0040 | 0.0022 | . | . | 0.0003 | 0.0002 | . | 0.0009 | . | 0.0009 | c | 60 x 20 |
| 3 | V 2009 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | PY 2330 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 3 | V 1106 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 2 | AA SS-5357 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 3 | V 1102 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 2008 | . | . | . | . | . | . | . | . | 0.0004 | 0.0008 | . | . | . | . | c | 60 x 20 |
| 1 | PY 6033 | . | . | . | . | . | . | . | . | . | 0.00005 | . | . | . | . | c | 55 x 30 |
| 3 | V 1304 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 3 | V 1114 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | AL 522/03 | . | . | . | 0.0010 | 0.0010 | . | . | . | . | 0.0011 | . | . | . | . | c | 60 x 25 |
| 1 | PY 2340 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 2 | ALC-5005-AG | . | . | . | 0.0026 | 0.0011 | . | . | . | 0.0024i | 0.0022i | 0.0025 | 0.0018 | . | 0.0026 | w | 57 x 25 |
| 1 | BAM 310 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | ALC-5457-AB | . | . | . | 0.0035i | 0.0010i | . | . | . | 0.0034i | 0.0031i | 0.0027 | 0.0024 | . | 0.0037i | w | 57 x 25 |

Mg Alloys, chart 4 of 4

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|---------|---------|--------|--------|---------|--------------|--------|---------|---------|--------|----------|---------|---------|---------|---------|
| 3 | V 1111 | . | . | . | 0.0002 | 0.0025 | . | 0.99 | 0.0001 | . | . | 0.003 | . | . | . | 0.002 | . |
| 1 | AL 513/02 | . | . | 0.0010 | 0.0033 | 0.0056 | . | 0.98 | 0.0010 | 0.0012 | . | 0.0057 | . | 0.0030 | 0.0012 | 0.0035 | 0.0010 |
| 2 | AA WJ-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.90 | 0.03i | 0.03i | . | 0.35 | . | 0.03i | . | 0.03i | . |
| 2 | AA WH-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.90 | 0.03i | 0.03i | . | 0.25 | . | 0.03i | . | 0.03i | . |
| 2 | AA SS-5005 | <0.0005 | <0.0010 | 0.02i | 0.06i | 0.50 | 0.02i | 0.85 | 0.03i | 0.02i | <0.0030 | 0.15i | <0.0010 | 0.02i | 0.01i | 0.06i | <0.0030 |
| 3 | V 2006 | . | . | 0.003 | 0.0054 | 0.23 | . | 0.83 | 0.0044 | . | . | 0.12 | . | 0.014 | . | 0.014 | . |
| 1 | 511X G6262B | . | 0.424 | 0.0666 | 0.243 | 0.329 | . | 0.829 | 0.0737 | 0.0034 | 0.499 | 0.557 | (0.0012) | 0.0194 | . | 0.0209 | . |
| 3 | V 2007 | . | . | 0.0008 | 0.022 | 0.42 | . | 0.82 | 0.073 | . | . | 0.072 | . | 0.0039 | . | 0.096 | . |
| 2 | AA SS-5657 | <0.0005 | <0.0010 | 0.01i | 0.04i | 0.06i | 0.015 | 0.80 | 0.02i | 0.01i | <0.0030 | 0.04i | <0.0010 | 0.01i | 0.01i | 0.02i | <0.0030 |
| 3 | V 1303 | . | . | . | 0.0017 | 0.024 | . | 0.79 | 0.0095 | . | . | 0.067 | . | 0.004 | . | 0.017 | . |
| 3 | V 1105 | . | . | . | 0.0025 | 0.007 | . | 0.79 | 0.0006 | . | . | 0.0065 | . | . | . | 0.0035 | . |
| 3 | V 1101 | . | . | . | 0.014 | 0.007 | . | 0.75 | 0.002 | . | . | 0.013 | . | 0.006 | . | 0.054 | . |
| 3 | V 1110 | . | . | . | 0.0003 | 0.0018 | . | 0.75 | 0.0001 | . | . | 0.0026 | . | . | . | 0.0015 | . |
| 2 | ALC-5657-AA | 0.0042 | 0.018 | 0.020 | 0.050 | 0.077 | 0.030 | 0.740 | 0.030 | 0.020 | 0.019 | 0.052 | 0.022 | 0.022 | 0.027 | 0.029 | . |
| 2 | AA SS-6951 | <0.0005 | <0.0010 | 0.02i | 0.30 | 0.40 | 0.015 | 0.70 | 0.03i | 0.02i | <0.0030 | 0.40 | <0.0010 | 0.02i | 0.01i | 0.10i | <0.0030 |
| 2 | AA WZ-6000 | . | . | <0.0050 | 0.03i | 0.15i | 0.02i | 0.70 | 0.01i | <0.0050 | . | 0.40 | . | <0.0050 | 0.005i | <0.0050 | . |
| 1 | PY 2350 | 0.00044 | . | 0.0985 | 0.0517 | 0.374 | . | 0.669 | 0.0506 | 0.0519 | 0.0106 | 0.197 | 0.0203 | 0.0231 | 0.0273 | 0.0498 | 0.0190 |
| 3 | AJ 024 | . | . | 0.052 | 0.054 | 0.196 | . | 0.655 | 0.013 | 0.048 | . | 0.407 | . | 0.013 | 0.012 | 0.058 | . |
| 2 | AA SS-6063 | <0.0005 | <0.0010 | 0.02i | 0.06i | 0.25 | 0.02i | 0.65 | 0.02i | 0.02i | <0.0030 | 0.48 | <0.0010 | 0.03i | 0.01i | 0.05i | <0.0030 |
| 2 | AA WX-6000 | . | . | 0.32 | 0.03i | 0.20i | . | 0.65 | 0.02i | 0.01i | . | 0.42 | . | 0.01i | . | 0.02i | . |
| 2 | ALC-5010-AE | 0.0014 | 0.023 | 0.025 | 0.032 | 0.44 | 0.026 | 0.57 | 0.26 | 0.022 | 0.016 | 0.18 | 0.018 | 0.025 | 0.024 | 0.027 | 0.0034 |
| 2 | ALC-6063-BE | 0.0013 | 0.0088i | 0.019 | 0.088 | 0.21 | 0.022 | 0.55 | 0.088 | 0.025 | 0.0096 | 0.44 | 0.022 | 0.030 | 0.022 | 0.029 | 0.0031 |
| 1 | V 2012-5 | 0.00104 | 0.0052 | 0.01047 | 0.0756 | 0.2282 | 0.02044 | 0.545 | 0.0512 | 0.015 | 0.00465 | 0.4833 | 0.0048 | 0.0235 | 0.0092 | 0.0205 | 0.00164 |
| 1 | V 2104-4 | 0.00411 | 0.00030 | 0.0500 | 0.253 | 0.233 | 0.0132 | 0.539 | 0.221 | 0.00457 | 0.0105 | 0.299 | 0.00034 | 0.0832 | 0.01020 | 0.1347 | 0.00572 |
| 1 | V 2000-1 | . | . | 0.0015 | 0.0054 | 0.19 | . | 0.52 | 0.010 | 0.0017 | 0.0012 | 0.49 | <0.004 | 0.0098 | 0.0015 | 0.021 | 0.0035 |
| 3 | V 1302 | . | . | 0.0007 | 0.0016 | 0.024 | . | 0.51 | 0.009 | . | . | 0.076 | . | 0.0015 | . | 0.014 | . |
| 3 | V 1300 | . | . | . | 0.0018 | 0.026 | . | 0.51 | 0.0012 | . | . | 0.036 | . | 0.0015 | . | 0.0065 | . |
| 2 | AA SS-3105 | <0.0005 | <0.0010 | 0.05i | 0.15i | 0.50 | 0.02i | 0.50 | 0.40 | 0.02i | 0.001i | 0.20i | <0.0010 | 0.01i | 0.01i | 0.20i | <0.0030 |
| 1 | AL 512/02 | 0.00092 | . | 0.0107 | 0.0126 | 0.0306 | 0.0042 | 0.498 | 0.0107 | 0.0117 | 0.00126 | 0.0377 | 0.0012 | 0.0135 | 0.0057 | 0.0116 | 0.0052 |
| 2 | AA WA-6063 | . | . | . | 0.0105 | 0.164 | 0.0140 | 0.482 | 0.0315 | . | . | 0.45 | . | 0.0133 | 0.0100 | . | . |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|-------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|
| 3 | V 1111 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL 513/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 2 | AA WJ-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WH-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA SS-5005 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 3 | V 2006 | . | . | . | . | . | . | . | 0.0001 | 0.0004 | . | . | . | . | c 60 x 20 |
| 1 | 511X G6262B | . | . | . | . | . | . | . | . | . | . | . | . | . | w -50 x -20 |
| 3 | V 2007 | . | . | . | . | . | . | . | 0.0001 | 0.0006 | . | . | . | . | c 60 x 20 |
| 2 | AA SS-5657 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 3 | V 1303 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 1105 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 1101 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 1110 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | ALC-5657-AA | . | . | . | 0.0066i | . | . | . | 0.0022i | 0.0027i | 0.004 | . | . | . | w 57 x 25 |
| 2 | AA SS-6951 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | AA WZ-6000 | . | . | <0.0005 | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | PY 2350 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 3 | AJ 024 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 25 |
| 2 | AA SS-6063 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64x25 or 25x6 |
| 2 | AA WX-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | ALC-5010-AE | . | . | . | 0.0031i | 0.0016 | . | . | 0.0034i | 0.0031i | 0.0058i | . | . | 0.0020i | w 57 x 25 |
| 2 | ALC-6063-BE | <0.0001 | <0.0001 | 0.0001 | 0.0033i | 0.0012 | 0.0001 | <0.0001 | 0.0033i | 0.0025i | 0.0033 | 0.0034 | . | 0.0030 | w 57 x 25 |
| 1 | V 2012-5 | Al: [98.5] | . | 0.0017 | 0.00099 | 0.00094 | 0.00101 | . | 0.00077 | 0.00057 | 0.00211 | 0.0031 | . | 0.00081 | c 60 x 20 |
| 1 | V 2104-4 | 0.00072 | . | <0.0002 | 0.00015 | 0.00093 | 0.00082 | 0.00135 | 0.00026 | 0.00028 | . | . | . | . | c 60 x 20 |
| 1 | V 2000-1 | . | . | <0.002 | <0.0003 | . | <0.002 | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 1302 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 1300 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | AA SS-3105 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 1 | AL 512/02 | . | 0.0016 | . | . | 0.0010 | . | 0.0036 | . | . | . | 0.0014 | . | . | c 60 x 25 |
| 2 | AA WA-6063 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |

Al: [98.13]

CRM Mg Alloy Sets

available as SETS ONLY, as grouped

HS4874x-7: 50 mm \varnothing x 30 mmHS49729: 45 mm \varnothing x 40 mmothers 62 mm \varnothing x 30 mm

| Number | Mg | Cr | Cu | Fe | Li | Mn | Na | Ni | Pb | Si | Ti | V | Zn | Zr | B | Be | Cd | Co | Ga | Sc |
|----------------|-------|----------|--------|--------|---------|--------|-----------|---------|--------|--------|---------|-------|--------|---------|---------|---------|-----------|-----------|--------|-------|
| NCS HS49707a-1 | 8.46 | 0.106 | 0.167 | 0.301 | . | 0.137 | . | 0.164 | . | 0.195 | 0.142 | . | 0.118 | . | . | 0.0061 | . | . | . | . |
| NCS HS49707a-2 | 5.33 | 0.192 | 0.090 | 0.364 | . | 0.366 | . | 0.060 | . | 0.304 | 0.0033 | . | 0.225 | . | . | 0.044 | . | . | . | . |
| NCS HS49707a-3 | 6.38 | 0.140 | 0.128 | 0.458 | . | 0.526 | . | 0.089 | . | 0.377 | 0.0068 | . | 0.156 | . | . | 0.111 | . | . | . | . |
| NCS HS49707a-4 | 7.04 | 0.246 | 0.229 | 0.584 | . | 0.677 | . | 0.169 | . | 0.459 | 0.087 | . | 0.586 | . | . | 0.0011 | . | . | . | . |
| NCS HS49707a-5 | 10.14 | 0.0123 | 0.0074 | 0.134 | . | 0.065 | . | 0.146 | . | 0.078 | 0.0070 | . | 0.038 | . | . | 0.0087 | . | . | . | . |
| NCS HS49707a-6 | 3.76 | 0.273 | 0.243 | 0.696 | . | 0.865 | . | 0.035 | . | 0.600 | 0.191 | . | 0.285 | . | . | 0.00056 | . | . | . | . |
| NCS HS49734-1 | 4.85 | 0.214 | 0.013 | 0.361 | . | 1.11 | . | 0.013 | . | 0.246 | 0.0094 | . | 0.101 | 0.035 | 0.0010 | 0.00011 | . | . | . | 0.031 |
| NCS HS49734-2 | 6.28 | 0.127 | 0.051 | 0.273 | . | 0.849 | . | 0.014 | . | 0.206 | 0.062 | . | 0.029 | 0.162 | 0.0020 | 0.0012 | . | . | . | 0.103 |
| NCS HS49734-3 | 5.61 | 0.023 | 0.029 | 0.197 | . | 0.413 | . | 0.0097 | . | 0.131 | 0.029 | . | 0.044 | 0.092 | 0.0027 | 0.0034 | . | . | . | 0.181 |
| NCS HS49734-4 | 7.11 | 0.134 | 0.072 | 0.155 | . | 0.140 | . | 0.035 | . | 0.050 | 0.178 | . | 0.135 | 0.220 | 0.0084 | 0.0051 | . | . | . | 0.236 |
| NCS HS49734-5 | 7.30 | 0.066 | 0.097 | 0.299 | . | 0.783 | . | 0.108 | . | 0.100 | 0.079 | . | 0.076 | 0.055 | 0.0060 | 0.00051 | . | . | . | 0.257 |
| NCS HS49734-6 | 5.19 | (0.014) | 0.012 | 0.089 | . | 0.341 | (0.0005) | 0.0066 | . | 0.049 | 0.040 | . | 0.0080 | (0.097) | . | 0.0013 | . | . | . | 0.349 |
| NCS HS49734-7 | 4.52 | (0.013) | 0.011 | 0.089 | . | 0.306 | (0.0005) | 0.0058 | . | 0.046 | 0.039 | . | 0.0074 | 0.088 | . | 0.0011 | . | . | . | 0.535 |
| NCS HS49737-1 | 5.94 | 0.010 | 0.019 | 0.091 | . | 0.092 | 0.00020 | 0.0070 | 0.0011 | 0.039 | 0.011 | . | 0.327 | . | . | . | 0.00011 | . | . | . |
| NCS HS49737-2 | 5.16 | 0.110 | 0.168 | 0.238 | . | 0.478 | 0.00076 | 0.022 | 0.0075 | 0.086 | 0.129 | . | 0.258 | . | . | . | 0.0068 | . | . | . |
| NCS HS49737-3 | 4.56 | 0.067 | 0.072 | 0.314 | . | 0.370 | 0.0014 | 0.044 | 0.0068 | 0.138 | 0.074 | . | 0.197 | . | . | . | 0.0053 | . | . | . |
| NCS HS49737-4 | 3.76 | 0.173 | 0.105 | 0.397 | . | 0.221 | (0.0010) | 0.067 | 0.015 | 0.214 | 0.175 | . | 0.105 | . | . | . | 0.0087 | . | . | . |
| NCS HS49737-5 | 2.94 | 0.220 | 0.209 | 0.471 | . | 0.601 | (0.00039) | 0.107 | 0.023 | 0.296 | 0.235 | . | 0.050 | . | . | . | 0.019 | . | . | . |
| NCS HS49737-6 | 4.25 | 0.041 | 0.056 | 0.284 | . | 0.342 | 0.00013 | 0.022 | 0.0034 | 0.116 | 0.041 | . | 0.055 | . | . | . | 0.0011 | . | . | . |
| NCS HS49706a-1 | 3.95 | 0.252 | 0.045 | 0.202 | . | 0.168 | (0.0028) | 0.038 | . | 0.238 | (0.300) | . | 0.098 | . | . | . | . | . | . | . |
| NCS HS49706a-2 | 2.24 | 0.219 | 0.101 | 0.340 | . | 0.327 | 0.00011 | 0.233 | . | 0.462 | 0.046 | . | 0.052 | . | . | . | . | . | . | . |
| NCS HS49706a-3 | 2.90 | 0.123 | 0.153 | 0.444 | . | 0.495 | 0.0011 | 0.071 | . | 0.702 | 0.149 | . | 0.143 | . | . | . | . | . | . | . |
| NCS HS49706a-4 | 1.39 | 0.314 | 0.184 | 0.624 | . | 0.677 | 0.00014 | 0.097 | . | 0.788 | 0.188 | . | 0.235 | . | . | . | . | . | . | . |
| NCS HS49706a-5 | 5.09 | 0.042 | 0.0085 | 0.093 | . | 0.051 | . | 0.011 | . | 0.102 | 0.019 | . | 0.030 | . | . | . | . | . | . | . |
| NCS HS49706a-6 | 0.611 | 0.359 | 0.210 | 0.684 | . | 0.826 | . | 0.122 | . | 0.898 | 0.215 | . | 0.306 | . | . | . | . | . | . | . |
| Number | Mg | Cr | Cu | Fe | Li | Mn | Na | Ni | Pb | Si | Ti | V | Zn | Zr | B | Be | Cd | Co | Ga | Sc |
| NCS HS48746a-1 | 2.03 | 0.348 | 0.203 | 0.107 | . | 1.14 | . | . | . | 0.513 | 0.231 | . | 0.302 | . | . | . | . | . | . | . |
| NCS HS48746a-2 | 2.56 | 0.209 | 0.150 | 0.204 | . | 0.90 | . | . | . | 0.420 | 0.160 | . | 0.19 | . | . | . | . | . | . | . |
| NCS HS48746a-3 | 3.04 | 0.110 | 0.108 | 0.293 | . | 0.68 | . | . | . | 0.330 | 0.105 | . | 0.13 | . | . | . | . | . | . | . |
| NCS HS48746a-4 | 3.49 | 0.036 | 0.049 | 0.380 | . | 0.446 | . | . | . | 0.204 | 0.050 | . | 0.17 | . | . | . | . | . | . | . |
| NCS HS48746a-5 | 4.04 | (0.0024) | 0.010 | 0.482 | . | 0.203 | . | . | . | 0.101 | 0.010 | . | 0.071 | . | . | . | . | . | . | . |
| NCS HS49732-1 | 1.04 | . | . | . | 0.0054 | . | . | . | . | . | . | . | . | . | 0.0068 | . | 0.0045 | 0.0052 | 0.018 | . |
| NCS HS49732-2 | 1.09 | . | . | . | 0.00012 | . | . | . | . | . | . | . | . | . | 0.0010 | . | (0.00022) | . | . | . |
| NCS HS49732-3 | 0.092 | . | . | . | 0.00058 | . | . | . | . | . | . | . | . | . | 0.0011 | . | 0.00023 | 0.00025 | 0.0093 | . |
| NCS HS49732-4 | 0.106 | . | . | . | 0.039 | . | . | . | . | . | . | . | . | . | 0.0032 | . | 0.019 | 0.0037 | 0.0097 | . |
| NCS HS49732-5 | 2.67 | . | . | . | 0.00010 | . | . | . | . | . | . | . | . | . | 0.0015 | . | 0.00012 | (0.00013) | 0.411 | . |
| NCS HS49732-6 | 0.629 | . | . | . | 0.0042 | . | . | . | . | . | . | . | . | . | 0.00067 | . | 0.052 | 0.0098 | 0.069 | . |
| NCS HS49732-7 | 2.01 | . | . | . | 0.0023 | . | . | . | . | . | . | . | . | . | 0.0040 | . | 0.0015 | 0.0111 | 0.040 | . |
| NCS HS49726-1 | 1.20 | . | 0.0025 | 0.034 | . | 0.0017 | . | 0.0093 | . | 0.027 | 0.0090 | . | 0.0072 | . | . | . | . | . | . | . |
| NCS HS49726-2 | 1.88 | . | 0.0065 | 0.0097 | . | 0.0017 | . | 0.00088 | . | 0.0033 | 0.00084 | . | 0.013 | . | . | . | . | . | . | . |
| NCS HS49726-3 | 1.63 | . | 0.0038 | 0.012 | . | 0.0042 | . | 0.0036 | . | 0.0073 | 0.0042 | . | 0.0047 | . | . | . | . | . | . | . |
| NCS HS49726-4 | 2.10 | . | 0.011 | 0.027 | . | 0.011 | . | 0.0098 | . | 0.013 | 0.011 | . | 0.0012 | . | . | . | . | . | . | . |
| NCS HS49726-5 | 2.13 | . | 0.012 | 0.0040 | . | 0.0013 | . | 0.00028 | . | 0.015 | 0.00060 | . | 0.0024 | . | . | . | . | . | . | . |
| NCS HS49736-1 | 1.39 | . | 0.030 | 0.847 | . | 0.687 | (0.0012) | 0.0041 | 0.0085 | 0.658 | 0.039 | 0.102 | 0.052 | . | . | . | 0.00017 | . | 0.020 | . |
| NCS HS49736-2 | 1.19 | . | 0.111 | 0.664 | . | 0.795 | 0.00025 | 0.018 | 0.016 | 0.488 | 0.105 | 0.068 | 0.109 | . | . | . | 0.0028 | . | 0.034 | . |
| NCS HS49736-3 | 1.16 | . | 0.203 | 0.497 | . | 0.957 | 0.00055 | 0.055 | 0.011 | 0.194 | 0.091 | 0.056 | 0.206 | . | . | . | 0.0042 | . | 0.059 | . |
| NCS HS49736-4 | 0.869 | . | 0.380 | 0.332 | . | 1.05 | 0.0013 | 0.071 | 0.0051 | 0.342 | 0.156 | 0.033 | 0.271 | . | . | . | 0.0044 | . | 0.086 | . |
| NCS HS49736-5 | 0.712 | . | 0.298 | 0.209 | . | 1.18 | (0.0016) | 0.086 | 0.0016 | 0.056 | 0.201 | 0.018 | 0.330 | . | . | . | 0.0058 | . | 0.096 | . |
| NCS HS48744a-1 | 1.51 | 0.011 | 0.020 | 0.099 | . | 1.77 | . | 0.0048 | . | 0.065 | 0.206 | . | 0.011 | . | . | . | . | . | . | . |
| NCS HS48744a-2 | 1.01 | 0.051 | 0.102 | 0.299 | . | 1.51 | . | 0.012 | . | 0.125 | 0.156 | . | 0.084 | . | . | . | . | . | . | . |
| NCS HS48744a-3 | 0.584 | 0.101 | 0.202 | 0.503 | . | 1.18 | . | 0.052 | . | 0.311 | 0.107 | . | 0.159 | . | . | . | . | . | . | . |
| NCS HS48744a-4 | 0.323 | 0.148 | 0.310 | 0.695 | . | 0.946 | . | 0.101 | . | 0.654 | 0.048 | . | 0.247 | . | . | . | . | . | . | . |
| NCS HS48744a-5 | 0.093 | 0.198 | 0.424 | 0.898 | . | 0.719 | . | 0.148 | . | 0.946 | 0.010 | . | 0.348 | . | . | . | . | . | . | . |
| Number | Mg | Cr | Cu | Fe | Li | Mn | Na | Ni | Pb | Si | Ti | V | Zn | Zr | B | Be | Cd | Co | Ga | Sc |

Mg/Si Alloys, chart 1 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|---------|--------|--------|--------|--------|--------------|--------|--------|---------|-------|---------|--------|--------|--------|---------|
| 3 | V 2612 | . | . | 0.003 | 0.003 | 0.17 | . | 9.6 | 0.33 | . | . | 0.95 | . | 0.026 | . | 0.017 | . |
| 3 | V 2611 | . | . | 0.003 | 0.003 | 0.22 | . | 9 | 0.27 | . | . | 0.83 | . | 0.035 | . | 0.008 | . |
| 3 | V 2610 | . | . | <0.003 | <0.003 | 0.28 | . | 8.3 | 0.2 | . | . | 0.74 | . | 0.046 | . | 0.027 | . |
| 1 | V 2652-2 | 0.0032 | 0.0002 | 0.0054 | 0.0472 | 0.831 | 0.0102 | 7.75 | 0.513 | 0.0054 | 0.0034 | 1.765 | 0.0032 | 0.0595 | 0.0084 | 0.0225 | 0.0043 |
| 1 | AL 565/03 | 0.0099 | . | . | 0.050 | 0.50 | . | 7.01 | 0.437 | . | . | 1.84 | . | (0.21) | . | 0.031 | . |
| 1 | V 2552-2 | 0.0039 | . | 0.0072 | 0.484 | 0.0884 | 0.0087 | 5.33 | 0.0296 | 0.0047 | 0.0207 | 1.117 | 0.0092 | 0.0393 | 0.0124 | 0.0308 | 0.0022 |
| 1 | V 2510-2 | 0.0004 | . | 0.0035 | 0.037 | 0.37 | 0.0042 | 5.01 | 0.21 | 0.0047 | 0.0089 | 0.98 | 0.0088 | 0.046 | 0.0099 | 0.022 | 0.011 |
| 1 | V 2512-2 | 0.0005 | . | 0.0029 | 0.0024 | 0.251 | 0.0208 | 4.59 | 0.347 | 0.01 | 0.0039 | 1.332 | 0.0042 | 0.0259 | 0.0101 | 0.0661 | 0.0113 |
| 3 | V 2550 | 0.0040 | . | <0.01 | 0.31 | 0.20 | . | 4.48 | 0.025 | <0.01 | . | 1.73 | . | 0.050 | <0.01 | 0.022 | <0.01 |
| 2 | ALC-A320-AC | 0.005 | 0.037 | 0.020 | 0.057 | 0.20 | 0.018 | 4.10 | 0.036 | 0.032 | 0.042 | 0.54 | 0.038 | 0.15 | 0.012 | 0.047 | . |
| 1 | AL 561/01 | 0.0121 | . | 0.025 | 0.0245 | 0.253 | 0.019 | 2.75 | 0.280 | 0.0458 | 0.0444 | 1.17 | 0.0323 | 0.0120 | 0.0170 | 0.021 | . |
| 2 | AA WG-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 1.4i | 0.03i | 0.03i | . | 0.60 | . | 0.03i | . | 0.03i | . |
| 2 | ALC-4104-AE | 0.0012 | 0.11 | 0.030 | 0.10 | 0.59 | 0.019 | 1.48 | 0.050 | 0.030 | 0.028 | 10.06 | 0.033 | 0.027 | 0.019 | 0.10 | 0.0025 |
| 1 | AL 637C/01 | . | . | 0.3514 | 0.379 | 0.377 | 0.0495 | 1.468 | 0.304 | 0.1026 | 0.0200 | 1.569 | 0.0022 | 0.0648 | 0.0291 | 0.0011 | 0.0515 |
| 2 | AA SS-6053 | <0.0005 | <0.0010 | 0.25 | 0.05i | 0.30 | 0.015 | 1.2i | 0.02i | 0.03i | <0.0030 | 0.70 | <0.0010 | 0.03i | 0.01i | 0.05i | <0.0030 |
| 2 | AA WF-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 1.2i | 0.03i | 0.03i | . | 0.60 | . | 0.03i | . | 0.03i | . |
| 3 | V 2100-2 | 0.0058 | . | 0.18 | 0.053 | 0.90 | . | 1.19 | 0.32 | . | . | 0.89 | . | 0.042 | . | 0.22 | . |
| 3 | V 2100-1 | 0.0060 | . | 0.18 | 0.015 | 0.88 | . | 1.19 | 0.32 | . | 0.0020 | 0.89 | . | 0.041 | . | 0.22 | . |
| 3 | AJ 021 | 0.0020 | . | 0.203 | 0.313 | 0.708 | 0.035 | 1.10 | 0.122 | 0.0074 | . | 0.557 | . | 0.071 | 0.0064 | 0.096 | 0.134 |
| 2 | ALC-6061-AT | 0.0012 | 0.0074 | 0.24 | 0.35 | 0.32 | 0.020 | 1.04 | 0.099 | 0.030 | 0.0076 | 0.74 | 0.020 | 0.040 | 0.020 | 0.040 | 0.0043 |
| 2 | AA SS-6061 | <0.0005 | <0.0010 | 0.23 | 0.30 | 0.35 | 0.02i | 1.0i | 0.05i | 0.05i | <0.0030 | 0.65 | <0.0010 | 0.04i | 0.01i | 0.08i | <0.0030 |
| 2 | AA WA-6061 | . | . | 0.05i | 0.30 | 0.35 | 0.02i | 1.0i | 0.05i | 0.05i | . | 0.60 | . | 0.05i | 0.01i | 0.12i | . |
| 2 | AA SS-6262 | <0.0005 | 0.58 | 0.04i | 0.30 | 0.35 | 0.02i | 1.0i | 0.05i | 0.03i | 0.58 | 0.60 | <0.0010 | 0.05i | 0.01i | 0.05i | <0.0030 |
| 2 | AA WD-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.95 | 0.03i | 0.03i | . | 0.60 | . | 0.03i | . | 0.03i | . |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|-------------|---------|---------|---------|---------|---------|---------|---------|---------|----------|---------|---------|---------|---------|-----------------|
| 3 | V 2612 | . | . | . | . | . | . | . | 0.0008 | <0.001 | . | . | . | . | c 60 x 20 |
| 3 | V 2611 | . | . | . | . | . | . | . | 0.0015 | 0.0012 | . | . | . | . | c 60 x 20 |
| 3 | V 2610 | . | . | . | . | . | . | . | 0.005 | 0.003 | . | . | . | . | c 60 x 20 |
| 1 | V 2652-2 | . | . | <0.0002 | 0.0005 | 0.0014 | . | . | 0.0007 | 0.0009 | . | . | . | 0.0005 | c 60 x 20 |
| 1 | AL 565/03 | . | . | . | . | . | . | . | . | 0.00180 | . | . | . | . | c 60 x 25 |
| 1 | V 2552-2 | . | . | <0.0002 | 0.0017 | 0.0016 | 0.0008 | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | V 2510-2 | . | . | <0.0002 | 0.0007 | . | 0.0002 | . | 0.0052 | 0.0079 | . | . | . | . | c 60 x 20 |
| 1 | V 2512-2 | . | . | <0.0002 | 0.0015 | 0.0012 | 0.0013 | . | 0.0018 | 0.0012 | . | . | . | 0.0035 | c 60 x 20 |
| 3 | V 2550 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | ALC-A320-AC | . | . | . | . | . | . | . | . | . | . | . | . | . | c 57 x 25 |
| 1 | AL 561/01 | . | . | . | . | 0.0009 | . | . | . | (0.0043) | . | . | . | . | c 60 x 25 |
| 2 | AA WG-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | ALC-4104-AE | . | . | . | 0.0029 | 0.0013 | . | . | 0.0024 | 0.0024 | 0.0027 | 0.0028 | . | 0.0030 | w 57 x 25 |
| 1 | AL 637C/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 2 | AA SS-6053 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | 0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | AA WF-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 3 | V 2100-2 | . | . | . | 0.0012 | . | . | . | 0.0005 | 0.0010 | . | . | . | . | c 60 x 20 |
| 3 | V 2100-1 | . | . | . | 0.0012 | . | . | . | 0.0005 | 0.0011 | . | . | . | . | c 60 x 20 |
| 3 | AJ 021 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 55 x 25 |
| 2 | ALC-6061-AT | <0.0001 | <0.0001 | 0.0002 | 0.0030 | 0.0011 | 0.0001 | <0.0001 | 0.0036i | 0.0022i | 0.0024 | 0.0037 | . | 0.0023 | w 57 x 25 |
| 2 | AA SS-6061 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64x25 or 25x6 |
| 2 | AA WA-6061 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA SS-6262 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | AA WD-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |

Al: [89.0]

Mg/Si Alloys, chart 2 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|---------------|---------|---------|---------|--------|--------|--------|--------------|--------|----------|---------|-------|---------|---------|---------|--------|---------|
| 2 | AA WW-6000 | . | . | 0.25 | 0.45 | 0.50 | . | 0.90 | 0.08i | 0.05i | . | 0.60 | . | 0.05i | . | 0.04i | . |
| 2 | AA WV-6000 | . | . | 0.15i | 0.30 | 0.80 | . | 0.90 | 0.15i | 0.01i | . | 0.60 | . | 0.10i | . | 0.08i | . |
| 2 | AA WU-6000 | . | . | 0.35 | 0.18i | 0.65 | . | 0.90 | 0.04i | 0.03i | . | 0.60 | . | 0.02i | . | 0.15i | . |
| 2 | AA WT-6000 | . | . | 0.08i | 0.10i | 0.15i | . | 0.90 | 0.04i | 0.03i | . | 0.60 | . | 0.01i | . | 0.02i | . |
| 2 | AA WM-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.90 | 0.03i | 0.03i | . | 0.90 | . | 0.03i | . | 0.03i | . |
| 2 | AA WL-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.90 | 0.03i | 0.03i | . | 0.70 | . | 0.03i | . | 0.03i | . |
| 2 | AA WK-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.90 | 0.03i | 0.03i | . | 0.50 | . | 0.03i | . | 0.03i | . |
| 2 | AA WS-6000 | . | . | 0.03i | 0.05i | 0.35 | . | 0.90 | 0.02i | 0.01i | . | 0.60 | . | 0.08i | . | 0.04i | . |
| 2 | AA WR-6000 | . | . | 0.01i | 0.02i | 0.25 | . | 0.90 | 0.08i | 0.05i | . | 0.60 | . | 0.03i | . | 0.08i | . |
| 2 | AA ST1-6000 | 0.0005 | 0.001i | 0.15i | 0.15i | 0.30 | 0.02i | 0.80 | 0.05i | 0.05i | 0.003i | 0.55 | 0.001i | 0.04i | 0.01i | 0.08i | 0.001i |
| 1 | AL AS60/01 | . | 0.0048 | 0.0258 | 0.0330 | 0.253 | . | 0.794 | 0.0397 | 0.0113 | 0.0058 | 0.639 | 0.0036 | 0.0216 | 0.0147 | 0.0259 | . |
| 2 | AA WC-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.75 | 0.03i | 0.03i | . | 0.60 | . | 0.03i | . | 0.03i | . |
| 2 | AA SS-6201 | <0.0005 | <0.0010 | <0.0050 | 0.03i | 0.25 | 0.02i | 0.75 | 0.01i | <0.0050 | <0.0030 | 0.75 | <0.0010 | <0.0050 | <0.0050 | 0.02i | <0.0030 |
| 2 | ALC-A6181-AA | 0.0012 | 0.007 | 0.059 | 0.14 | 0.27 | 0.020 | 0.73 | 0.16 | 0.03i | 0.0086 | 0.86 | 0.019 | 0.030 | 0.020 | 0.073 | 0.0029 |
| 2 | ALC-6201-AD | 0.0013 | 0.030 | 0.019 | 0.02i | 0.25 | 0.024 | 0.72 | 0.018 | 0.022 | 0.019 | 0.68 | 0.02i | 0.020 | 0.022 | 0.073 | 0.0032 |
| 1 | AL 661/02 | . | . | 0.052 | 0.057 | 0.306 | . | 0.717 | 0.050 | 0.0032 | 0.0025 | 0.619 | . | 0.05i | 0.080 | 0.113 | 0.0012 |
| 1 | AL 451/04 | 0.0005 | . | 0.0022 | 0.05i | 0.120 | 0.0079 | 0.63 | 0.0077 | 0.0049 | 0.0016 | 6.93 | 0.0009 | 0.093 | 0.0048 | 0.0054 | 0.0014 |
| 1 | AL 451/05 | 0.0005 | . | 0.0022 | 0.05i | 0.120 | 0.0079 | 0.63 | 0.0077 | (0.0060) | 0.0016 | 6.93 | 0.0009 | 0.093 | 0.0048 | 0.0054 | 0.0014 |
| 1 | AL 614/05 | . | 0.0078 | 0.0209 | 0.0299 | 0.246 | . | 0.616 | 0.0518 | 0.0095 | 0.0052 | 0.630 | 0.0055 | 0.0303 | 0.0166 | 0.0523 | 0.0016 |
| 3 | V 2004 | . | . | 0.0019 | 0.013 | 0.19 | . | 0.61 | 0.015 | . | . | 0.54 | . | 0.012 | . | 0.011 | . |
| 1 | AL 662/02 | . | . | 0.147 | 0.212 | 0.320 | . | 0.601 | 0.070 | 0.0012 | 0.0050 | 0.700 | 0.0052 | 0.0048 | 0.0042 | 0.100 | 0.0028 |
| 2 | AA SS-6022 | . | . | 0.0298 | 0.070 | 0.126 | 0.0155 | 0.60 | 0.073 | <0.0050 | . | 0.89 | . | 0.0395 | 0.0109 | 0.100 | . |
| 2 | ALC-6008-AA | 0.0012 | 0.0080 | 0.015 | 0.30 | 0.21 | 0.021 | 0.60 | 0.067 | 0.030 | 0.0080 | 0.67 | 0.013 | 0.030 | 0.10 | 0.019 | 0.0030 |
| 2 | AA WB-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.60 | 0.03i | 0.03i | . | 0.60 | . | 0.03i | . | 0.03i | . |
| 1 | AL 426/02 | . | . | 0.0015 | 0.0057 | 0.22 | . | 0.59 | 0.011 | 0.0026 | 0.019 | 7.46 | 0.019 | 0.127 | 0.0022 | 0.013 | . |
| 1 | AL 618/01 | . | 0.0140 | 0.0087 | 0.0364 | 0.201 | 0.0117 | 0.588 | 0.0895 | 0.0050 | 0.0026 | 0.500 | 0.0148 | 0.0225 | 0.0169 | 0.0134 | 0.0013 |
| 3 | AJ 026 | 0.0004 | 0.0009 | 0.0013 | 0.0021 | 0.300 | 0.0044 | 0.582 | 0.0017 | 0.0010 | 0.0013 | 0.527 | 0.0018 | 0.0005 | 0.0010 | 0.0012 | 0.0008 |
| 1 | V 2003-1 | . | . | 0.0020 | 0.0071 | 0.18 | 0.011 | 0.57 | 0.030 | 0.0028 | 0.0011 | 0.62 | . | 0.022 | 0.0020 | 0.030 | 0.0026 |
| 2 | ALC-A355.0-AD | 0.0009 | 0.007 | 0.030 | 1.23 | 0.145 | 0.019 | 0.56 | 0.029i | 0.031 | 0.0079 | 5.17 | 0.019 | 0.155 | 0.019 | 0.031 | 0.0028 |
| 3 | V 2005 | . | . | 0.0015 | 0.027 | 0.23 | . | 0.53 | 0.01 | . | . | 0.67 | . | 0.0056 | . | 0.013 | . |
| 1 | V 2013-2 | 0.00104 | 0.00611 | 0.0171 | 0.0713 | 0.1937 | 0.0201 | 0.498 | 0.0615 | 0.01598 | 0.00753 | 0.495 | 0.00992 | 0.0235 | 0.0167 | 0.0225 | 0.00200 |
| 2 | AJ 029 | 0.0010 | 0.0053 | 0.0086 | 0.0081 | 0.202 | 0.012 | 0.481 | 0.010 | 0.0081 | 0.0079 | 0.457 | 0.0079 | 0.0091 | 0.010 | 0.0096 | 0.0083 |
| 1 | V 2002-1 | . | . | 0.0014 | 0.0074 | 0.19 | . | 0.44 | 0.011 | 0.0015 | . | 0.48 | . | 0.012 | 0.0018 | 0.018 | 0.0025 |

| # | Number | Ag | As | B | Ba | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|---------------|-----------|---------|----------|--------|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-----------------|
| 2 | AA WW-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WV-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WU-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WT-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WM-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WL-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WK-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WS-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA WR-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA ST1-6000 | <0.0010 | . | <0.0005 | . | . | 0.001i | 0.001i | . | . | . | . | 0.001i | . | 0.001i | c 64 x 25 |
| 1 | AL AS60/01 | . | . | . | . | . | . | . | . | . | . | . | 0.0045 | . | . | c 60 x 25 |
| 2 | AA WC-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA SS-6201 | <0.0010 | <0.0010 | 0.02i | . | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 2 | ALC-A6181-AA | . | . | . | . | 0.0041i | 0.0011 | . | 0.0022i | 0.0029i | 0.002 | 0.003 | . | . | 0.0028i | w 57 x 25 |
| 2 | ALC-6201-AD | . | . | . | . | 0.0033i | 0.0015 | . | . | 0.0028i | 0.0026i | 0.0046i | 0.0043 | . | 0.0033i | w 57 x 25 |
| 1 | AL 661/02 | . | . | (0.0001) | . | . | . | . | . | . | 0.0004 | 0.0024 | . | . | . | c 60 x 25 |
| 1 | AL 451/04 | . | . | . | . | 0.0012 | 0.0007 | . | 0.0007 | . | 0.0008i | 0.0016 | . | . | 0.0194i | c 60 x 25 |
| 1 | AL 451/05 | . | . | . | . | 0.0012 | 0.0007 | . | 0.0007 | . | 0.00097 | 0.0016 | . | . | 0.0208 | c 60 x 25 |
| 1 | AL 614/05 | . | 0.0033 | . | . | 0.0012i | 0.0016 | 0.0041 | 0.0033 | 0.0003 | 0.0009i | 0.0032 | 0.0035 | . | . | c 60 x 25 |
| 3 | V 2004 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL 662/02 | . | . | 0.0003 | . | 0.0013 | . | . | . | . | 0.0006 | . | 0.0053 | . | . | c 60 x 25 |
| 2 | AA SS-6022 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64x25 or 25x6 |
| 2 | ALC-6008-AA | . | . | . | . | 0.0035 | 0.0014 | . | . | 0.0024i | 0.0029i | 0.004 | 0.0032 | . | 0.0031 | w 57 x 25 |
| 2 | AA WB-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 1 | AL 426/02 | . | . | . | . | (0.0019) | 0.0019 | . | (0.001) | . | . | . | 0.18 | . | . | c 60 x 25 |
| 1 | AL 618/01 | . | . | . | . | (0.0006) | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 3 | AJ 026 | . | . | 0.0006 | 0.0010 | 0.0003 | . | 0.0004 | . | 0.0002 | 0.0005 | . | . | . | 0.0004 | c 55 x 25 |
| 1 | V 2003-1 | . | . | <0.001 | . | 0.0003 | . | . | . | 0.0005 | 0.0006 | . | . | . | . | c 60 x 20 |
| 2 | ALC-A355.0-AD | . | . | . | . | 0.0038 | 0.0011 | . | . | 0.0029i | 0.0034i | 0.0026 | 0.0034 | . | 0.0037i | w 57 x 25 |
| 3 | V 2005 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | V 2013-2 | Al:[98.5] | . | 0.00045 | . | 0.00120 | 0.00110 | 0.0011 | . | 0.00087 | 0.00069 | 0.0024 | 0.00300 | . | 0.00134 | c 60 x 20 |
| 2 | AJ 029 | . | . | 0.0004 | . | 0.0005 | 0.0021 | 0.0009 | . | 0.0001 | 0.0003 | . | . | . | 0.0007 | c 55 x 25 |
| 1 | V 2002-1 | . | . | . | . | . | . | . | . | 0.0006 | 0.0007 | . | . | . | . | c 60 x 20 |

Mg/Zn Alloys, chart 1 of 2

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|---------|---------|--------|--------|---------|-------------|--------|---------|---------|--------|---------|--------|--------|------|---------|
| 1 | AL 711/02 | 0.0050 | . | 0.0092 | 0.049 | 0.452 | . | 4.45 | 0.204 | . | . | 0.40 | . | 0.106 | . | 1.30 | . |
| 2 | AA SS-513 | 0.0001 | <0.0010 | 0.03i | 0.05i | 0.30 | 0.015 | 4.0i | 0.08i | 0.03i | <0.0030 | 0.20i | <0.0030 | 0.03i | 0.01i | 1.8i | <0.0030 |
| 1 | AL 712/02 | 0.0022 | . | . | 0.0295 | 0.191 | . | 3.64 | 0.158 | . | . | 0.131 | . | 0.027 | . | 2.29 | . |
| 2 | AA SS-7079 | 0.003i | <0.0010 | 0.16i | 0.65 | 0.22i | 0.015 | 3.5i | 0.20i | <0.0050 | <0.0030 | 0.15i | <0.0010 | 0.03i | 0.01i | 4.6i | <0.0030 |
| 2 | ALC-7022-AC | 0.0012 | 0.007 | 0.25 | 0.88 | 0.43 | 0.021 | 3.40 | 0.30 | 0.018 | 0.008 | 0.38 | 0.018 | 0.015 | 0.018 | 4.80 | 0.0019 |
| 2 | ALC-7079-AA | 0.0013 | 0.020 | 0.22 | 0.66 | 0.24 | 0.020 | 3.28 | 0.25 | 0.029 | 0.014 | 0.20 | 0.022 | 0.056 | 0.021 | 4.55 | 0.0037 |
| 2 | AA SS-7039 | 0.003i | <0.0010 | 0.20i | 0.08i | 0.20i | 0.02i | 3.0i | 0.25 | 0.02i | <0.0030 | 0.15i | <0.0010 | 0.05 | 0.01i | 4.0i | <0.0030 |
| 3 | V 5008 | . | . | 0.16 | 0.051 | 0.26 | . | 2.76 | 0.41 | . | . | 0.28 | . | 0.022 | . | 4.60 | 0.002 |
| 1 | 59X G7022A | . | . | 0.140 | 0.631 | 0.120 | . | 2.69 | 0.127 | 0.0030 | 0.0019 | 0.126 | 0.0006 | 0.0160 | . | 5.17 | 0.0016 |
| 1 | AL 724/02 | . | 0.0038 | 0.158 | 0.149 | 0.430 | . | 2.66 | 0.190 | 0.097 | 0.0050 | 0.366 | 0.0062 | 0.093 | 0.0067 | 4.84 | 0.105 |
| 1 | PY 257 | <0.0002 | . | 0.253 | 0.062 | 0.058 | . | 2.55 | 0.450 | 0.115 | 0.098 | 0.056 | 0.103 | 0.200 | . | 2.91 | . |
| 1 | V 5121-1 | <0.0002 | . | 0.0053 | 0.387 | 0.0257 | 0.0071 | 2.41 | 0.0506 | 0.0024 | 0.0022 | 0.088 | 0.0044 | 0.0064 | . | 4.69 | 0.176 |
| 1 | V 5122-1 | 0.0009 | . | 0.007 | 0.202 | 0.0533 | 0.0143 | 2.18 | 0.093 | 0.003 | 0.0045 | 0.069 | 0.0054 | 0.0508 | . | 4.98 | 0.0782 |
| 1 | V 5123-1 | 0.0005 | . | 0.011 | 0.303 | 0.12 | 0.0105 | 1.98 | 0.315 | 0.0053 | 0.0109 | 0.0639 | 0.0108 | 0.0298 | . | 5.32 | 0.125 |
| 3 | V 5006 | . | . | 0.048 | 0.083 | 0.20 | . | 1.80 | 0.24 | <0.005 | . | 0.16 | . | 0.060 | . | 4.09 | 0.16 |
| 2 | ALC-7004-AA | 0.0013 | 0.022i | 0.034 | 0.052 | 0.27 | 0.030 | 1.76 | 0.52 | 0.043 | 0.029 | 0.17 | 0.032 | 0.051 | 0.032 | 5.15 | 0.14 |
| 2 | AA SS-7029 | <0.0005 | <0.0010 | <0.0050 | 0.75 | 0.10i | 0.015 | 1.7i | 0.02i | <0.0050 | <0.0030 | 0.10i | <0.0010 | 0.02i | 0.02i | 4.8i | <0.0030 |
| 3 | V 5050 | . | . | 0.10 | 0.060 | 0.18 | . | 1.74 | 0.26 | . | . | 0.10 | . | 0.030 | . | 1.02 | 0.14 |
| 1 | V 5021-2 | 0.0016 | . | 0.0158 | 0.0495 | 0.17 | 0.0202 | 1.71 | 0.191 | 0.0075 | 0.0151 | 0.0481 | 0.0151 | 0.0421 | . | 5.44 | 0.0544 |
| 2 | AA SS-7021 | <0.0005 | <0.0010 | 0.03i | 0.08i | 0.30i | 0.02i | 1.5i | 0.05i | <0.0050 | <0.0030 | 0.12i | <0.0010 | 0.04i | 0.01i | 5.4i | 0.13i |
| 3 | V 5051 | . | . | 0.17 | 0.056 | 0.18 | . | 1.55 | 0.26 | . | . | 0.097 | . | 0.040 | . | 2.00 | 0.15 |
| 1 | PY 248 | 0.0002 | . | 0.056 | 0.258 | 0.375 | . | 1.49 | 0.418 | 0.035 | 0.100 | 0.460 | 0.101 | 0.153 | . | 4.90 | 0.055 |
| 1 | V 5022-1 | 0.00214 | . | 0.0186 | 0.0161 | 0.244 | 0.00117 | 1.48 | 0.441 | 0.0113 | 0.0236 | 0.0340 | 0.0226 | 0.0183 | . | 5.71 | 0.0113 |
| 2 | ALC-7021-AA | . | 0.027 | 0.033 | 0.029 | 0.38 | (0.15) | 1.48 | 0.037 | 0.035 | . | 0.22 | 0.031 | 0.041 | 0.012 | 5.42 | 0.16 |
| 1 | 59X G77J 4E | . | . | 0.071 | 0.81 | 1.04 | . | 1.47 | 0.224 | 0.0037 | 0.073 | 0.59 | 0.219 | 0.119 | 0.0067 | 5.30 | 0.080 |
| 2 | ALC-7146-AA | . | 0.025 | 0.028 | 0.031 | 0.36 | 0.015 | 1.41 | 0.037 | 0.036 | 0.030 | 0.22 | 0.032 | 0.042 | 0.011 | 6.86 | 0.16 |
| 3 | V 5052 | . | . | 0.15 | 0.059 | 0.19 | . | 1.40 | 0.26 | . | . | 0.090 | . | 0.042 | . | 2.99 | 0.16 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units | |
|---|-------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|-------|----------------|
| 1 | AL 711/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | AA SS-513 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.001 | c | 64 x 25 |
| 1 | AL 712/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | AA SS-7079 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | ALC-7022-AC | . | . | . | 0.0024 | 0.0013 | . | . | 0.0028 | 0.0028 | 0.0018 | 0.0021 | . | 0.0029 | w | 57 x 25 |
| 2 | ALC-7079-AA | . | . | . | 0.0026 | 0.0014 | . | . | 0.0038 | 0.0018 | 0.0015 | 0.0034 | . | 0.0028 | w | 57 x 40 |
| 2 | AA SS-7039 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 3 | V 5008 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | 59X G7022A | . | . | . | . | . | . | . | . | . | . | . | . | . | w | 50 x ~20 |
| 1 | AL 724/02 | . | . | . | 0.0009 | . | . | . | 0.0005 | . | . | . | . | . | c | 60 x 25 |
| 1 | PY 257 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 1 | V 5121-1 | . | . | <0.0004 | 0.0012 | 0.0001 | . | . | <0.0002 | <0.0003 | . | . | 0.212 | . | c | 60 x 20 |
| 1 | V 5122-1 | . | . | <0.0004 | 0.0007 | 0.0007 | . | . | 0.0007 | 0.0005 | . | . | 0.089 | . | c | 60 x 20 |
| 1 | V 5123-1 | . | . | <0.0004 | 0.0006 | 0.0009 | . | . | 0.0012 | 0.0009 | . | . | 0.139 | . | c | 60 x 20 |
| 3 | V 5006 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 2 | ALC-7004-AA | . | . | . | 0.0040 | 0.0014 | . | . | 0.0015 | 0.0049i | 0.001 | 0.0028 | . | 0.0027 | w | 57 x 25 |
| 2 | AA SS-7029 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 3 | V 5050 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | V 5021-2 | Al:[92.2] | . | <0.0004 | 0.0019 | 0.0020 | . | . | 0.0014 | 0.0011 | . | . | 0.056 | . | c | 60 x 20 |
| 2 | AA SS-7021 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 3 | V 5051 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | PY 248 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 1 | V 5022-1 | . | [91.9] | <0.0004 | 0.00269 | 0.00344 | . | . | 0.0036 | 0.0025 | . | . | 0.0055 | . | c | 60 x 20 |
| 2 | ALC-7021-AA | . | . | . | 0.033 | . | . | . | . | . | . | . | . | . | w | 57 x 25 |
| 1 | 59X G77J 4E | . | . | . | 0.00054 | . | . | . | . | . | . | . | . | . | c | 50x20 or 40x15 |
| 2 | ALC-7146-AA | . | . | . | . | . | . | . | . | . | . | . | . | . | w | 57 x 25 |
| 3 | V 5052 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |

Mn Alloys, chart 1 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|---------------|------------|---------|-----------|--------|--------|--------|---------|--------------|----------|----------|--------|----------|--------|---------|--------|----------|
| 1 | 514X 9091-1C | . | . | <0.005 | 0.046 | 0.081 | . | (0.001) | 6.93 | (0.0026) | 0.016 | 0.035 | 0.013 | 0.0017 | . | 0.029 | 0.184 |
| 3 | V 3503 | . | . | 0.001 | 0.002 | 0.29 | . | 0.008 | 1.66 | . | . | 16.1 | . | 0.36 | 0.03 | 0.005 | 0.002 |
| 3 | V 2701-2 | 0.0044 | . | <0.005 | 0.031 | 0.23 | . | 9.59 | 1.64 | . | . | 2.54 | . | 0.3i | . | 0.043 | . |
| 2 | AA WB-3003 | . | . | <0.0050 | 0.20i | 0.30 | 0.02i | 0.05i | 1.5i | <0.0050 | 0.02i | 0.15i | . | 0.01i | 0.01i | 0.02i | . |
| 2 | ALC-X3005-AB | 0.0011 | 0.008 | 0.016 | 0.53 | 0.21 | 0.020 | 0.12 | 1.5i | 0.021 | 0.009 | 0.081 | 0.018 | 0.020 | 0.020 | 0.025 | 0.0018 |
| 2 | AA WB-3004 | . | 0.002i | 0.02i | 0.20i | 0.40 | 0.02i | 0.90 | 1.4i | 0.02i | 0.02i | 0.10i | . | 0.05i | 0.01i | 0.10i | . |
| 1 | AL 391C/01 | . | . | 0.0905 | 0.1980 | 0.0463 | . | 0.0123 | 1.483 | 0.0258 | 0.0200 | 0.0205 | 0.0046 | 0.0847 | . | 0.0505 | 0.0011 |
| 3 | V 3501 | . | . | 0.0010 | . | 0.19 | . | 0.0070 | 1.45 | . | . | 14.1 | . | 0.097 | . | 0.0040 | . |
| 2 | ALC-4007-AA | 0.0011 | 0.007 | 0.091 | 0.011 | 0.55 | 0.019 | 0.008 | 1.43 | 0.21 | 0.0041 | 1.62 | 0.0022 | 0.029 | 0.015 | 0.029 | 0.0022 |
| 2 | ALC-3916-AA | 0.0011i | 0.0087i | 0.030 | 0.75 | 0.17 | 0.019 | 0.0025i | 1.38 | 0.088 | 0.0081 | 0.220 | 0.02 | 0.028 | 0.02 | 0.030 | 0.0029 |
| 3 | V 2107 | 0.0037 | . | 0.080 | 0.15 | 0.56 | . | 1.52 | 1.37 | . | . | 0.71 | . | 0.032 | . | 0.28 | . |
| 1 | 511X G05H 5G | 0.0005 | . | 0.030 | 0.038 | 0.081 | . | 9.1 | 1.27 | 0.011 | 0.23 | 0.06 | 0.011 | 0.025 | 0.022 | 0.132 | 0.102 |
| 2 | AA SS-3004 | <0.0005 | <0.0010 | <0.0050 | 0.15i | 0.50 | 0.02i | 1.1i | 1.2i | <0.0050 | 0.001i | 0.18i | <0.0010 | 0.02i | 0.01i | 0.05i | <0.0030 |
| 2 | AA ST1-3000 | 0.0005 | 0.001i | 0.01i | 0.15i | 0.50 | 0.02i | 1.0i | 1.2i | 0.01i | 0.003i | 0.20i | 0.001i | 0.02i | 0.01i | 0.05i | 0.001i |
| 2 | AA SS-3005 | <0.0005 | <0.0010 | 0.02i | 0.15i | 0.60 | 0.015 | 0.40 | 1.2i | 0.01i | <0.0030 | 0.22i | <0.0010 | 0.02i | 0.01i | 0.03i | <0.0030 |
| 2 | AA SS-3003 | <0.0005 | <0.0010 | <0.0050 | 0.15i | 0.50 | 0.02i | 0.03i | 1.2i | <0.0050 | 0.001i | 0.20i | <0.0010 | 0.02i | 0.01i | 0.08i | <0.0030 |
| 1 | AA ST2-3000 | 0.0005 | 0.001i | 0.01i | 0.15i | 0.50 | 0.02i | 0.03i | 1.2i | 0.01i | 0.003i | 0.20i | 0.001i | 0.02i | 0.01i | 0.05i | 0.001i |
| 2 | AA ST2-3003 | 0.0002 | 0.02i | 0.015 | 0.15i | 0.65 | 0.002i | 0.01i | 1.2i | 0.02i | 0.02i | 0.30 | 0.02i | 0.02i | 0.015 | 0.02i | 0.004i |
| 1 | 56X G2000J 1C | . | 0.008 | 0.0007 | 3.29 | 0.086 | . | 1.70 | 1.27 | 0.0046 | 0.0022 | 0.099 | 0.099 | 0.0053 | 0.0097 | 0.864 | 0.293 |
| 1 | SRM 1240c | (0.000011) | . | (0.00054) | 0.1484 | 0.501 | 0.0181 | 1.110 | 1.268 | 0.00434 | (0.0009) | 0.1804 | (0.0004) | 0.0204 | 0.01850 | 0.0514 | (0.0023) |
| 3 | V 2406 | . | . | 0.034 | 0.024 | 0.27 | . | 0.036 | 1.25 | . | . | 0.19 | . | 0.035 | . | 0.061 | . |
| 1 | AL 325/03 | . | . | 0.050 | 0.206 | 0.76 | . | 0.44 | 1.18 | . | . | 0.51 | . | 0.099 | 0.0021 | 0.165 | . |
| 2 | ALC-3005-AD | 0.0011 | 0.0077 | 0.015 | 0.2 | 0.55 | 0.02 | 0.52 | 1.15 | 0.020 | 0.008 | 0.46 | 0.019 | 0.041 | 0.022 | 0.13 | 0.0031 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|---------------|---------|---------|---------|---------|-----------|---------|---------|-----------|---------|---------|---------|---------|-----------|----------------------------|
| 1 | 514X 9091-1C | . | . | . | . | . | . | . | . | . | . | . | . | c | 40 x 13 |
| 3 | V 3503 | . | . | . | . | . | . | . | . | . | 0.001 | . | . | c | 60 x 20 |
| 3 | V 2701-2 | . | . | <0.003 | 0.0010 | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 2 | AA WB-3003 | . | . | . | . | 0.003i | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | ALC-X3005-AB | . | . | . | 0.0017 | 0.0020 | . | . | 0.0018i | 0.0018i | 0.0030 | 0.0020 | . | w | 57 x 25 |
| 2 | AA WB-3004 | . | . | . | . | 0.003i | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | AL 391C/01 | . | . | . | . | . | . | . | (0.00003) | . | . | . | . | c | 55 x 30 |
| 3 | V 3501 | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 2 | ALC-4007-AA | . | . | . | 0.0011i | 0.0012 | . | . | 0.0009i | 0.0012i | 0.0023 | 0.0042 | . | w | 57 x 25 |
| 2 | ALC-3916-AA | . | . | . | 0.0016i | 0.0008 | . | . | 0.0017i | 0.0021i | 0.0034 | 0.0033 | . | w | 57 x 25 |
| 3 | V 2107 | . | . | <0.0003 | 0.0008 | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | 511X G05H 5G | . | . | . | . | . | . | . | . | . | . | . | . | c | ~50 x ~20 |
| 2 | AA SS-3004 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | c | 64x25 or 25x6 |
| 2 | AA ST1-3000 | <0.0010 | . | <0.0005 | . | 0.001i | 0.0001 | 0.003i | . | . | 0.001i | 0.003i | . | c | 64 x 25 |
| 2 | AA SS-3005 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AA SS-3003 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AA ST2-3000 | <0.0010 | . | <0.0005 | . | 0.001i | 0.001i | 0.003i | . | . | 0.001i | . | . | c | 64 x 25 |
| 2 | AA ST2-3003 | . | 0.0005 | <0.0010 | 0.002i | 0.0005 | 0.0005 | 0.0002 | 0.001i | 0.0015 | 0.0005 | 0.003i | . | c | 64 x 25 |
| 1 | 56X G2000J 1C | 0.0048 | . | . | . | . | 0.00044 | . | (0.0001) | . | . | . | . | c | 50x20 (last) or 40x15 (OK) |
| 1 | SRM 1240c | . | . | . | . | (0.00065) | . | . | . | . | . | . | . | (<0.0001) | 63 x 19 |
| 3 | V 2406 | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | AL 325/03 | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | ALC-3005-AD | . | . | . | 0.0026 | 0.0011 | . | . | 0.0023i | 0.0022i | 0.0035 | 0.0024 | . | w | 57 x 25 |

Mn Alloys, chart 2 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|--------|--------|--------|--------|-------|-------|--------|------|--------|--------|-------|-------|---------|--------|-------|--------|
| 2 | ALC-X3012-AA | 0.0012 | 0.0078 | 0.016 | 0.520 | 0.20 | 0.020 | 0.031 | 1.23 | 0.020 | 0.0085 | 0.49 | 0.022 | 0.014 | 0.020 | 0.084 | 0.0030 |
| 2 | ALC-3004-AO | 0.0012 | 0.0069 | 0.029 | 0.21 | 0.48 | 0.022 | 1.24 | 1.20 | 0.027 | 0.008 | 0.23 | 0.013 | 0.029 | 0.019 | 0.13 | 0.0033 |
| 3 | V 2409 | . | . | 0.084 | 0.20 | 0.39 | . | 0.041 | 1.20 | . | . | 0.15 | . | 0.058 | . | 0.061 | . |
| 2 | ALC-X3003-AD | 0.0011 | 0.0064 | 0.015 | 0.16 | 0.53 | 0.021 | 0.014 | 1.17 | 0.018 | 0.0077 | 0.37 | 0.018 | 0.021 | 0.019 | 1.39 | 0.0024 |
| 2 | 55X G900J 5E | . | . | 0.46 | 0.024 | 0.18 | . | 0.009 | 1.16 | 0.41 | 0.014 | 1.65 | 0.006 | 0.33 | . | 0.023 | . |
| 3 | V 2414 | . | . | <0.001 | 0.023 | 0.34 | . | 0.030 | 1.16 | . | . | 0.68 | . | 0.020 | . | 0.048 | . |
| 3 | V 2412 | . | . | 0.0080 | 0.021 | 0.98 | 0.011 | 0.16 | 1.15 | 0.27 | 0.11 | 1.45 | 0.095 | 0.0042 | 0.058 | 0.22 | . |
| 2 | ALC-3203-AG | 0.0011 | 0.028 | 0.029 | 0.052 | 0.54 | 0.022 | 0.032 | 1.14 | 0.033 | 0.021 | 0.33 | 0.023 | 0.029 | 0.025 | 0.039 | 0.0039 |
| 2 | PY 68452 | . | . | 0.03 | 0.11 | 0.31 | . | 0.88 | 1.14 | 0.02 | 0.02 | 0.16 | 0.02 | 0.06 | . | 0.1 | . |
| 1 | V 2417-1 | 0.0009 | 0.0053 | 0.016 | 0.097 | 0.48 | 0.020 | 0.050 | 1.12 | 0.017 | 0.0079 | 0.23 | 0.011 | 0.018 | 0.011 | 0.025 | 0.0019 |
| 3 | V 2408 | . | . | 0.013 | 0.050 | 0.41 | . | 0.150 | 1.10 | . | . | 0.11 | . | 0.0070 | . | 0.052 | . |
| 1 | AL 551/03 | . | . | 0.338 | 0.137 | 0.060 | . | 1.40 | 1.10 | 0.0031 | 0.0186 | 0.246 | . | 0.0117 | 0.0215 | 0.100 | . |
| 2 | AA WA-3004 | . | 0.005i | 0.01i | 0.10i | 0.60 | 0.02i | 1.3i | 1.0i | 0.01i | 0.006i | 0.22i | . | <0.0050 | 0.01i | 0.15i | . |
| 3 | V 2102 | 0.0038 | . | 0.043 | 0.20 | 0.43 | . | 0.45 | 1.07 | . | . | 1.82 | . | 0.030 | . | 0.050 | . |
| 3 | V 3502 | . | . | 0.001 | 0.001 | 0.13 | . | 0.002 | 1.05 | . | . | 14.8 | . | 0.23 | . | 0.003 | . |
| 3 | V 2404 | . | . | 0.0060 | 0.034 | 0.44 | . | 0.16 | 1.05 | . | 0.0020 | 0.23 | . | 0.011 | . | 0.10 | 0.0050 |
| 1 | AL 322/03 | . | 0.0020 | 0.0053 | 0.0218 | 0.408 | . | 0.0178 | 1.05 | 0.0009 | 0.0041 | 0.105 | . | 0.011 | 0.0095 | 0.051 | 0.067 |

| # | Number | B | Ca | Cd | Co | Li | Na | P | Sb | Sc | Sr | Tl | Units |
|---|--------------|--------|---------|--------|--------|---------|---------|--------|----------|----|---------|----|------------------|
| 2 | ALC-X3012-AA | . | 0.0015i | 0.0014 | . | 0.0012i | 0.0014i | 0.0036 | 0.002 | . | 0.0019i | . | w 57 x 25 |
| 2 | ALC-3004-AO | . | 0.0038 | 0.0013 | . | 0.0019i | 0.0028i | 0.0020 | (0.0035) | . | 0.0031 | . | w 57 x 25 |
| 3 | V 2409 | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | ALC-X3003-AD | . | 0.0019i | 0.0011 | . | 0.0021i | 0.0025i | 0.0030 | 0.0025 | . | 0.0019i | . | w 57 x 25 |
| 2 | 55X G900J 5E | . | . | . | . | . | . | . | . | . | . | . | c 50x20 or 40x15 |
| 3 | V 2414 | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 2412 | 0.0018 | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 2 | ALC-3203-AG | . | 0.0022i | 0.0016 | . | 0.0017i | 0.0021i | 0.0069 | 0.0042 | . | 0.0023i | . | w 57 x 25 |
| 2 | PY 68452 | . | . | . | . | . | . | . | . | . | . | . | c 55 x 30 |
| 1 | V 2417-1 | 0.0007 | 0.0007 | 0.0009 | 0.0010 | 0.0005 | 0.0011 | 0.0023 | 0.0035 | . | 0.0006 | . | c 60 x 20 |
| 3 | V 2408 | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL 551/03 | . | . | . | . | . | 0.0027 | . | . | . | . | . | c 60 x 25 |
| 2 | AA WA-3004 | . | . | 0.001i | . | . | . | . | . | . | . | . | c 64 x 25 |
| 3 | V 2102 | 0.0002 | 0.0015 | . | . | 0.0005 | 0.0010 | . | . | . | . | . | c 60 x 20 |
| 3 | V 3502 | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 2404 | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL 322/03 | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |

| CRM | | Mn Alloy Set | | | | | | | | |
|----------------|--|---------------|-------|-------|--------|------|-------|-------|--------|--------|
| | | SET/5 ONLY | | | | | | | | |
| | | 50 mm x 30 mm | | | | | | | | |
| Number | | Cr | Cu | Fe | Mg | Mn | Si | Ti | Zn | Zr |
| NCS HS48741a-1 | | 0.0033 | 0.020 | 0.216 | 0.375 | 1.83 | 0.108 | 0.012 | 0.308 | 0.178 |
| NCS HS48741a-2 | | 0.0162 | 0.063 | 0.360 | 0.215 | 1.54 | 0.260 | 0.053 | 0.170 | 0.087 |
| NCS HS48741a-3 | | 0.040 | 0.120 | 0.502 | 0.101 | 1.28 | 0.410 | 0.106 | 0.090 | 0.045 |
| NCS HS48741a-4 | | 0.080 | 0.205 | 0.652 | 0.030 | 1.05 | 0.551 | 0.146 | 0.034 | 0.016 |
| NCS HS48741a-5 | | 0.145 | 0.303 | 0.806 | 0.0027 | 0.78 | 0.704 | 0.208 | 0.0067 | 0.0025 |

Mn Alloys, chart 3 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|----------------|---------|---------|--------|--------|--------|--------|--------|--------------|--------|---------|--------|--------|--------|--------|--------|---------|
| 1 | AL 544/01 | . | . | 0.048 | 0.010 | 0.141 | . | 5.51 | 1.04 | 0.019 | . | 0.055 | . | 0.053 | . | 0.011 | . |
| 1 | AL 323/02 | . | 0.0052 | 0.011 | 0.205 | 0.62 | . | 0.34 | 1.03 | 0.012 | . | 0.51 | . | 0.0282 | 0.012 | 0.156 | 0.010 |
| 3 | V 2400 | . | . | 0.031 | 0.045 | 0.42 | . | 0.055 | 1.03 | . | . | 0.16 | . | 0.022 | . | 0.072 | . |
| 1 | AL 554/02 | 0.0024 | . | 0.0321 | 0.052 | 0.321 | . | 2.64 | 1.03 | 0.0086 | 0.0091 | 0.258 | 0.0124 | 0.0466 | 0.0088 | 0.110 | . |
| 1 | AL 635/03 | 0.0006 | . | 0.059 | 0.049 | 0.278 | . | 0.748 | 1.03 | 0.052 | 0.0064 | 1.29 | 0.0048 | 0.044 | 0.0147 | 0.147 | 0.0048 |
| 3 | V 2401 | . | . | 0.030 | 0.053 | 0.43 | . | 0.05 | 1.02 | . | . | 0.17 | . | 0.049 | . | 0.072 | . |
| 1 | PY 1211 | . | . | 0.0625 | 3.52 | 0.1180 | . | 0.820 | 1.004 | 0.0348 | 0.0007 | 1.160 | 0.0815 | 0.1750 | . | 0.0100 | 0.0013 |
| 2 | AA SS-3104 | <0.0005 | <0.0010 | 0.015i | 0.20i | 0.42i | 0.015i | 1.2i | 1.0i | 0.005i | <0.0030 | 0.25i | 0.001i | 0.020i | 0.015i | 0.01i | <0.0030 |
| 1 | AL 2413 | . | . | <0.001 | 0.036 | 0.42 | . | 0.027 | 0.97 | . | 0.0009 | 0.50 | . | 0.0090 | . | 0.0040 | . |
| 3 | V 2105 | 0.0046 | . | 0.16 | 0.12 | 0.39 | . | 0.59 | 0.97 | . | 0.0021 | 0.86 | . | 0.039 | . | 0.072 | . |
| 1 | V 2410-2 | 0.0028 | 0.0005 | 0.0481 | 0.105 | 0.574 | 0.0302 | 0.0135 | 0.967 | 0.0025 | 0.0021 | 0.2691 | 0.003 | 0.0132 | 0.0053 | 0.0286 | 0.0043 |
| 2 | AA WA-3003 | 0.001i | . | 0.03i | 0.09i | 0.65 | 0.02i | 0.01i | 0.95 | 0.03i | 0.006i | 0.40 | . | 0.03i | 0.01i | 0.05i | . |
| 2 | ALC-3104-AW | 0.0011 | 0.0075i | 0.027 | 0.22 | 0.48 | 0.020 | 1.19 | 0.94 | 0.024 | 0.0077 | 0.27 | 0.015 | 0.029 | 0.020 | 0.16 | 0.0020 |
| 1 | 511X G3000B 4C | 0.0140 | . | 0.0121 | 0.086 | 0.440 | 0.0284 | 1.267 | 0.916 | 0.0347 | 0.0285 | 0.130 | 0.0456 | 0.052 | 0.0199 | 0.058 | . |
| 2 | ALC-3204-AA | 0.0010 | 0.017 | 0.027 | 0.21 | 0.43 | 0.018 | 1.34 | 0.91 | 0.031 | 0.012 | 0.23 | 0.013 | 0.035 | 0.022 | 0.028 | 0.0029 |
| 1 | 511X G6012 | 0.0072 | 0.552 | 0.269 | 0.114 | 0.285 | . | 1.10 | 0.910 | 0.0154 | 1.10 | 1.35 | 0.040 | 0.016 | . | 0.255 | 0.032 |
| 1 | PY 758 | . | . | 0.0112 | 0.5030 | 0.1488 | . | 0.0992 | 0.908 | 0.0022 | 0.0051 | 0.4824 | 0.0298 | 0.0384 | . | 0.0224 | . |
| 1 | AL 333/02 | . | . | 0.023 | 0.050 | 0.77 | . | 0.041 | 0.90 | 0.011 | 0.0038 | 0.100 | . | 0.024 | . | 0.021 | . |
| 1 | AL 331/02 | . | . | 0.195 | 0.249 | 0.515 | . | 0.0430 | 0.90 | 0.033 | 0.0044 | 0.24 | . | 0.054 | 0.0263 | 0.0188 | 0.138 |
| 3 | V 2407 | . | . | 0.067 | 0.031 | 0.52 | . | 0.013 | 0.89 | 0.0010 | 0.0020 | 0.20 | . | 0.013 | . | 0.039 | 0.0026 |
| 1 | PY 6038 | 0.00222 | . | 0.0444 | 0.1507 | 0.109 | . | 3.00 | 0.889 | 0.0021 | 0.0502 | 0.172 | 0.0009 | 0.1035 | . | 0.0583 | 0.0024 |
| 2 | ALC-B3S-AF | 0.007 | 0.037 | 0.027 | 0.043 | 0.48 | 0.015 | 0.35 | 0.88 | 0.036 | 0.038 | 0.27 | 0.045 | 0.032 | 0.012 | 0.051 | . |
| 1 | AL 336/01 | . | . | 0.162 | 0.200 | 0.40 | . | 0.017 | 0.88 | 0.033 | . | 0.29 | . | 0.054 | 0.023 | 0.007 | 0.17 |
| 3 | V 2415 | . | . | <0.001 | 0.017 | 0.54 | . | 0.25 | 0.87 | . | . | 0.35 | . | 0.030 | . | 0.035 | . |
| 1 | AL AS50/01 | 0.0050 | 0.0173 | 0.100 | 0.084 | 0.347 | . | 4.50 | 0.85 | 0.030 | 0.009 | 0.220 | . | 0.040 | 0.026 | 0.101 | . |

| # | Number | B | Ca | Cd | Li | Na | P | Sb | Sr | Units |
|---|----------------|------------|---------|---------|---------|----------|---------|---------|---------|---------------------------------|
| 1 | AL 544/01 | . | . | . | 0.0006 | 0.00140 | . | . | . | c 60 x 25 |
| 1 | AL 323/02 | . | . | . | 0.00010 | 0.0010 | . | . | . | c 60 x 25 last of stock |
| 3 | V 2400 | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL 554/02 | . | . | 0.0051 | . | 0.0043i | . | . | . | c 60 x 25 |
| 1 | AL 635/03 | As: 0.0026 | 0.0008 | 0.0008 | 0.0008 | 0.0015 | . | 0.0027 | . | c 60 x 25 |
| 3 | V 2401 | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | PY 1211 | . | . | . | . | . | . | . | . | c 55 x 30 |
| 2 | AA SS-3104 | <0.0005 | <0.0005 | <0.0010 | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | c 64 x 25 |
| 3 | V 2413 | . | . | . | . | . | . | . | . | c 60 x 20 |
| 3 | V 2105 | 0.0003 | 0.0004 | . | . | 0.0003 | . | . | . | c 60 x 20 |
| 1 | V 2410-2 | 0.0015 | 0.0013 | 0.0026 | 0.0005 | 0.0004 | 0.0021 | 0.001 | 0.0011 | c 60 x 20 Co: 0.0042 Hg: 0.0011 |
| 2 | AA WA-3003 | . | . | 0.001i | . | . | . | . | . | c 64 x 25 |
| 2 | ALC-3104-AW | 0.0002 | 0.0028 | 0.0012 | 0.0024i | 0.0018i | 0.0021 | 0.0018 | 0.0024i | w 57 x 25 Co: 0.0001 |
| 1 | 511X G3000B 4C | . | . | . | . | . | . | . | . | c 50 x 20 |
| 2 | ALC-3204-AA | . | 0.0024i | . | 0.0016i | 0.0018i | 0.001 | . | 0.0026i | w 57 x 25 |
| 1 | 511X G6012 | . | . | . | . | . | . | . | . | c 50 x ~17 |
| 1 | PY 758 | . | . | . | . | . | . | . | . | c 55 x 30 |
| 1 | AL 333/02 | . | . | . | . | 0.0005 | . | . | . | c 60 x 25 |
| 1 | AL 331/02 | . | . | . | . | (0.0002) | . | . | . | c 60 x 25 |
| 3 | V 2407 | 0.0050 | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | PY 6038 | . | . | . | . | 0.00009 | . | . | . | c 55 x 30 |
| 2 | ALC-B3S-AF | . | . | . | 0.003 | . | 0.0001 | . | . | w 57 x 25 |
| 1 | AL 336/01 | . | . | . | . | 0.0004 | . | . | . | c 60 x 25 |
| 3 | V 2415 | . | . | . | . | . | . | . | . | c 60 x 20 |
| 1 | AL AS50/01 | . | . | . | 0.0006 | 0.0011 | . | . | . | c 60 x 25 |

Mn Alloys, chart 5 of 5

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|---------|----------|--------|--------|-------|-------|-------|--------------|--------|----------|-------|----------|--------|--------|--------|---------|
| 3 | AJ 009 | 0.0026 | 0.020 | 0.099 | 0.182 | 0.628 | 0.038 | 0.492 | 0.578 | 0.031 | 0.019 | 0.321 | 0.020 | 0.097 | 0.023 | 0.150 | 0.021 |
| 1 | 511X G6082B | . | (0.0007) | 0.0055 | 0.0141 | 0.180 | . | 0.660 | 0.566 | 0.0044 | (0.0009) | 0.910 | (0.0006) | 0.0158 | . | 0.0016 | . |
| 2 | AA SS-7076 | 0.002i | <0.0010 | 0.02i | 0.65 | 0.35 | 0.015 | 1.7i | 0.55 | 0.02i | <0.0030 | 0.15i | <0.0010 | 0.05i | 0.01i | 7.6i | <0.0030 |
| 2 | 511X G05H 4F | 0.014 | . | 0.029 | 0.056 | 0.14 | . | 5.1 | 0.55 | 0.040 | 0.15 | 0.11 | 0.14 | 0.048 | . | 0.062 | . |
| 3 | V 2652 | 0.0030 | . | <0.004 | 0.042 | 0.87 | . | 8.04 | 0.54 | <0.005 | . | 1.82 | . | 0.057 | . | 0.018 | . |
| 2 | ALC-3105-AH | 0.0010 | 0.0081 | 0.16 | 0.25 | 0.59 | 0.021 | 0.52 | 0.54 | 0.021 | 0.0086 | 0.51 | 0.020 | 0.045 | 0.021 | 0.13 | 0.0026 |
| 2 | ALC-B320-AA | . | 0.042 | 0.032 | 0.054 | 0.80 | 0.017 | 3.38 | 0.54 | 0.029 | 0.041 | 0.83 | 0.040 | 0.047 | 0.011 | 0.041 | . |
| 1 | 511X G6082A | . | (0.0008) | 0.0606 | 0.0184 | 0.081 | . | 0.759 | 0.534 | 0.0035 | 0.0012 | 0.753 | 0.0011 | 0.0278 | . | 0.054 | . |
| 1 | AL 713/01 | . | . | 0.19 | 0.10 | 0.35 | . | 1.67 | 0.53 | . | . | 0.33 | . | 0.017 | . | 4.60 | 0.17 |
| 1 | AL 312/01 | . | . | 0.048 | 0.19 | 0.36 | . | 0.60 | 0.52 | 0.030 | 0.027 | 0.100 | . | 0.030 | . | 0.055 | . |
| 1 | AL 555/03 | . | 0.017 | 0.105 | 0.107 | 0.404 | . | 3.01 | 0.516 | 0.011 | 0.010 | 0.419 | . | 0.094 | 0.0083 | 0.101 | 0.0092 |
| 1 | AL 543/01 | . | . | 0.24 | 0.019 | 0.515 | . | 4.05 | 0.511 | . | 0.0095 | 0.078 | 0.0104 | 0.036 | . | 0.101 | . |
| 1 | AL 631/01 | . | . | 0.103 | 0.0105 | 0.105 | . | 0.515 | 0.505 | 0.010 | 0.006 | 0.53 | . | 0.0078 | . | 0.018 | . |
| 1 | AL 553/01 | . | . | 0.106 | 0.048 | 0.202 | . | 1.48 | 0.500 | <0.001 | 0.020 | 0.039 | . | 0.032 | 0.0245 | 0.021 | . |
| 2 | ALC-5016-AA | 0.0038 | 0.019i | 0.017 | 0.036 | 0.76 | 0.023 | 2.48 | 0.50 | 0.015 | 0.014 | 0.25 | 0.014 | 0.015 | 0.023 | 0.080 | 0.0033 |
| 1 | AL 723/01 | . | . | 0.22 | 0.12 | 0.33 | . | 1.80 | 0.50 | 0.05 | . | 0.30 | . | 0.036 | . | 4.70 | 0.16 |
| 1 | AL 716/02 | 0.0010 | . | 0.036 | 0.051 | 0.26 | . | 3.50 | 0.50 | 0.050 | . | 0.10 | . | 0.033 | . | 4.50 | . |
| 2 | AA WA-5456 | 0.001i | . | 0.15i | 0.10i | 0.25 | 0.02i | 5.5i | 0.50 | 0.01i | . | 0.10i | . | 0.05i | 0.01i | 0.25 | . |
| 2 | AA SS-5086 | <0.0005 | <0.0010 | 0.12i | 0.05i | 0.25 | 0.02i | 4.0i | 0.50 | 0.03i | <0.0030 | 0.15i | <0.0010 | 0.03i | 0.01i | 0.05i | <0.0030 |
| 2 | AA SS-7005 | <0.0005 | <0.0010 | 0.10i | 0.10i | 0.20i | 0.02i | 1.3i | 0.50 | 0.02i | <0.0030 | 0.15i | <0.0010 | 0.02i | 0.01i | 4.5i | 0.14i |
| 2 | AA WA-5454 | 0.001i | . | 0.55i | 0.02i | 0.10i | 0.02i | 2.5i | 0.50 | 0.03i | . | 0.08i | . | 0.02i | 0.01i | 0.15i | . |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Mo | Na | P | Sb | Sc | Sr | Tl | Units |
|---|--------------|---------|---------|---------|---------|---------|---------|---------|-----------|----|----------|----------|---------|---------|---------|----|----------------|
| 3 | AJ 009 | . | . | (0.002) | 0.0023 | 0.0097 | 0.0092 | . | (0.00014) | . | (0.0018) | (0.0036) | . | . | 0.0034 | . | c 55 x 25 |
| 1 | 511X G6082B | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | w ~50 x ~20 |
| 2 | AA SS-7076 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | . | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | c 64 x 25 |
| 2 | 511X G05H 4F | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 40 x 15 |
| 3 | V 2652 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 20 last |
| 2 | ALC-3105-AH | . | . | . | 0.0023 | 0.0013 | . | . | 0.017i | . | 0.0022i | 0.0031 | 0.0026 | . | 0.0021 | . | w 57 x 25 |
| 2 | ALC-B320-AA | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 57 x 25 |
| 1 | 511X G6082A | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | w ~50 x ~20 |
| 1 | AL 713/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | AL 312/01 | . | . | . | . | . | . | . | . | . | 0.0051i | . | . | . | . | . | c 60 x 25 |
| 1 | AL 555/03 | . | . | . | . | . | . | . | . | . | 0.0004 | . | . | . | . | . | c 60 x 25 |
| 1 | AL 543/01 | . | . | (0.012) | . | . | . | . | 0.00050 | . | 0.0029 | . | . | . | . | . | c 60 x 25 |
| 1 | AL 631/01 | . | . | . | . | . | . | . | . | . | (0.0004) | . | . | . | . | . | c 60 x 25 |
| 1 | AL 553/01 | . | . | . | . | . | . | . | . | . | (0.0027) | . | . | . | . | . | c 60 x 25 |
| 2 | ALC-5016-AA | . | . | . | 0.0031i | 0.0012 | . | . | 0.0028i | . | 0.0026i | 0.0014i | 0.0025 | . | 0.0029i | . | w 57 x 25 |
| 1 | AL 723/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | AL 716/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 2 | AA WA-5456 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |
| 2 | AA SS-5086 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | . | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | c 64 x 25 |
| 2 | AA SS-7005 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | <0.0005 | . | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | c 64 x 25 |
| 2 | AA WA-5454 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c 64 x 25 |

CRM

Mn Alloy Set

available as SET ONLY 62 mm Ø x 30 mm

| Number | Mn | Cu | Fe | Mg | Ni | Pb | Si | Ti | Zn |
|----------------|-------|--------|-------|--------|--------|----------|-------|-------|-------|
| NCS HS49704b-1 | 0.851 | 0.184 | 0.671 | 0.0097 | 0.024 | 0.0043 | 0.588 | 0.018 | 0.028 |
| NCS HS49704b-2 | 1.20 | 0.097 | 0.537 | 0.032 | 0.049 | (0.0027) | 0.423 | 0.032 | 0.114 |
| NCS HS49704b-3 | 1.52 | 0.129 | 0.313 | 0.052 | 0.075 | 0.0067 | 0.287 | 0.060 | 0.047 |
| NCS HS49704b-4 | 1.93 | 0.057 | 0.242 | 0.073 | 0.109 | 0.017 | 0.145 | 0.088 | 0.081 |
| NCS HS49704b-5 | 0.544 | 0.228 | 0.830 | 0.101 | 0.152 | 0.019 | 0.695 | 0.123 | 0.165 |
| NCS HS49704b-6 | 2.38 | 0.0063 | 0.149 | 0.0060 | 0.0046 | 0.0011 | 0.050 | 0.010 | 0.017 |

Si Alloys, chart 1 of 6

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | si | Sn | Ti | V | Zn | Zr |
|---|---------------|-----------|----------|---------|----------|--------|--------|----------|-------|---------|----------|--------------|----------|--------|--------|--------|---------|
| 2 | AA SS-SI4001 | (0.0000) | (0.0003) | 0.0046 | 0.012 | 0.33 | 0.008 | 0.054 | 0.014 | 0.0085 | (0.001) | 38.1 | (0.0002) | 0.020 | 0.010 | 0.012 | (0.005) |
| 1 | 54X GS20J 4D | 0.0017 | . | 0.194 | (0.0037) | 0.227 | . | 0.0050 | 0.146 | 0.265 | 0.0014 | 25.5 | (0.0021) | 0.107 | . | 0.224 | . |
| 1 | 54X GS20J 3D | <0.0001 | . | 0.0017 | 0.079 | 0.328 | . | 0.118 | 0.302 | (0.003) | 0.077 | 23.9 | (0.012) | 0.0055 | . | 0.030 | . |
| 1 | 55X G28J 4T | . | . | 0.040 | 0.82 | 0.52 | . | 0.60 | 0.45 | 0.84 | 0.094 | 20.4 | 0.041 | 0.28 | 0.010 | 0.32 | . |
| 1 | 54X GS20J 1E | (0.00012) | . | 0.115 | 0.308 | 0.79 | . | 0.186 | 0.097 | 0.159 | 0.120 | 18.8 | 0.130 | 0.129 | . | 0.43 | . |
| 1 | 54X GS20J 2E | <0.0001 | . | 0.066 | 0.168 | 0.565 | . | 0.177 | 0.059 | 0.091 | 0.066 | 18.7 | 0.075 | 0.082 | . | 0.304 | . |
| 1 | 55X A30J 1J | 0.0048 | 0.018 | 0.0075 | 5.08 | 1.12 | . | 0.86 | 0.101 | 0.0100 | 0.14 | 14.92 | 0.0094 | 0.207 | 0.0117 | 0.145 | . |
| 1 | PY 219 | 0.0040 | . | . | 0.0008 | 0.101 | . | 0.117 | 0.580 | 0.025 | 0.0215 | 14.3 | 0.0650 | 0.015 | . | 0.0090 | . |
| 1 | 54X G06H 5L | . | . | 0.026 | 0.0229 | 0.210 | . | (0.0022) | 0.85 | 0.067 | (0.0020) | 13.76 | 0.022 | 0.0106 | 0.008 | 0.225 | . |
| 1 | PY 9619 | 0.00252 | . | 0.0099 | 0.1529 | 0.293 | . | 0.193 | 0.145 | 0.0043 | 0.0906 | 13.70 | 0.0587 | 0.0136 | . | 0.0037 | . |
| 1 | V 3005-3 | . | . | 0.0059 | 0.11 | 0.43 | 0.012 | 0.33 | 0.38 | 0.12 | 0.079 | 13.60 | 0.043 | 0.090 | 0.0045 | 0.13 | 0.0020 |
| 2 | 54X G13H 5H | . | . | <0.01 | 0.37 | 0.45 | . | 0.46 | 0.89 | 0.49 | 0.02 | 13.55 | 0.02 | 0.07 | . | 0.05 | . |
| 1 | AL 416/04 | 0.0010 | . | 0.049 | 0.190 | 0.690 | 0.0080 | 0.287 | 0.386 | 0.096 | 0.019 | 13.43 | 0.016 | 0.028 | 0.0098 | 0.048 | 0.0201 |
| 1 | 54X G13H 5L | 0.0049 | . | 0.044 | 0.216 | 0.715 | . | 0.092 | 0.119 | 0.115 | 0.013 | 13.26 | 0.009 | 0.032 | . | 0.070 | . |
| 1 | 54X G231 H3C | 0.0003 | . | 0.0630 | 0.420 | 0.393 | . | 0.039 | 0.477 | 0.0932 | 0.0080 | 13.17 | 0.0139 | 0.128 | . | 0.130 | . |
| 2 | IMI 620WM5 | . | . | 0.14 | <0.005 | 0.15 | . | 0.005 | 0.84 | <0.005 | <0.005 | 12.85 | <0.005 | 0.005 | . | 0.005 | . |
| 1 | AL 415/03 | . | 0.0084 | 0.0300 | 0.054 | 0.180 | 0.0088 | 0.500 | 0.096 | 0.050 | 0.051 | 12.80 | 0.048 | 0.055 | 0.020 | 0.036 | . |
| 2 | AA KB-413 | . | . | <0.0050 | 0.05i | 0.30 | . | 0.03i | 0.05i | 0.05i | 0.12i | 12.6 | 0.12i | 0.10i | . | 0.08i | . |
| 2 | ALC-160-DD | . | 0.040 | 0.042 | 0.044 | 0.52 | . | 0.040 | 0.037 | 0.037 | 0.042 | 12.40 | 0.042 | 0.040 | . | 0.048 | . |
| 1 | AL 461/01 | 0.0051 | 0.0092 | 0.0532 | 0.345 | 0.454 | 0.0076 | 0.131 | 0.489 | 0.248 | 0.0190 | 12.28 | 0.0201 | 0.104 | 0.0141 | 0.152 | 0.0193 |
| 2 | ALC-A413.2-AD | 0.0009 | 0.0069 | 0.016 | 0.033 | 0.40 | 0.020 | 0.260 | 0.039 | 0.031 | 0.0080 | 12.06 | 0.014 | 0.031 | 0.019 | 0.030 | 0.0034 |
| 1 | PY 1775 | . | . | 0.0127 | 0.0570 | 0.306 | . | 0.0265 | 0.371 | 0.0975 | 0.0307 | 12.05 | <0.0015 | 0.0480 | . | 0.1285 | . |
| 1 | V 3165-1 | <0.0001 | <0.0004 | 0.0008 | 0.0046 | 0.20 | 0.0069 | 0.20 | 0.14 | 0.0035 | 0.0011 | 12.00 | 0.0009 | 0.16 | 0.010 | 0.060 | 0.0019 |
| 2 | AA SS-413 | <0.0005 | <0.0010 | <0.0050 | 0.12i | 0.60 | 0.012 | 0.05i | 0.08i | 0.10i | <0.0030 | 12.0 | <0.0030 | 0.05i | 0.01i | 0.15i | <0.0030 |
| 1 | BAM EB316 | 0.000295 | 0.0140 | 0.00593 | 0.2970 | 0.1054 | 0.0105 | 0.045 | 0.204 | 0.0235 | 0.0087 | 11.98 | (0.0106) | 0.0790 | 0.0098 | 0.0611 | 0.00328 |
| 1 | 54X G06H 4R | . | . | 0.0132 | 0.128 | 0.262 | 0.0057 | 0.123 | 0.502 | 0.124 | 0.040 | 11.96 | 0.0057 | 0.121 | 0.0604 | 0.124 | . |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units |
|---|---------------|----------|----------|------------|-----------|----------|------------|----------|------------|----------|---------|----------|---------|----------|---------------------------|
| 2 | AA SS-SI4001 | (0.0005) | (0.0000) | (0.002) | (0.02) | (0.0001) | (0.0008) | . | (0.0003) | (0.0001) | (0.012) | (0.0000) | (0.006) | (0.007) | c 64 x 25 |
| 1 | 54X GS20J 4D | . | . | . | (<0.001) | . | . | . | . | . | . | . | . | (0.0022) | c 40 x 13 |
| 1 | 54X GS20J 3D | . | . | . | (<0.001) | . | . | . | . | . | . | . | . | <0.0001 | c 50x17 or 40x13 |
| 1 | 55X G28J 4T | . | . | . | . | 0.079 | . | . | . | . | (0.002) | . | . | . | c 50x17 or 40x13 |
| 1 | 54X GS20J 1E | . | . | . | (<0.001) | . | . | . | . | . | . | . | . | <0.0001 | c 50x17 or 40x13 |
| 1 | 54X GS20J 2E | . | . | . | (<0.001) | . | . | . | . | . | . | . | . | <0.0001 | c 50x17 or 40x13 |
| 1 | 55X A30J 1J | . | . | . | 0.0036 | . | 0.074 | . | . | . | 0.006 | . | . | . | HIP ~65 x ~25 |
| 1 | PY 219 | . | . | . | . | . | . | . | . | . | . | . | . | 0.115 | c 55 x ~4 |
| 1 | 54X G06H 5L | . | . | . | . | (0.0002) | <0.0005 | . | (0.0001) | . | . | . | . | . | c 40 x 13 |
| 1 | PY 9619 | . | . | . | . | . | . | . | . | . | . | 0.0160 | . | 0.0450 | c 55 x 30 |
| 1 | V 3005-3 | . | . | . | 0.0086 | . | . | . | . | . | 0.0006 | <0.0002 | . | 0.0007 | c 60 x 20 |
| 2 | 54X G13H 5H | . | . | . | . | . | . | . | . | . | . | . | . | . | c ~40 x ~13 last of stock |
| 1 | AL 416/04 | . | . | . | 0.0024i | . | 0.020 | . | 0.0004 | 0.0140i | 0.0025i | 0.0042 | . | 0.0103i | c 60 x 25 |
| 1 | 54X G13H 5L | . | . | . | . | 0.0016 | . | . | . | . | . | . | . | (0.033) | c 50 x ~17 |
| 1 | 54X G231 H3C | . | . | . | . | . | . | . | . | . | . | . | . | . | c ~50 x ~17 |
| 2 | IMI 620WM5 | . | . | . | . | . | . | . | . | . | . | . | . | . | c 58 x 7 |
| 1 | AL 415/03 | . | . | . | 0.018 | . | 0.050 | . | . | (0.007) | 0.0020 | 0.017 | . | 0.0006 | c 60 x 25 |
| 2 | AA KB-413 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c 64 x 25 |
| 2 | ALC-160-DD | . | . | . | <0.001 | . | . | . | . | (0.001) | . | . | . | . | c 57 x 25 |
| 1 | AL 461/01 | . | <0.0001 | <0.0005 | 0.0023 | <0.00002 | . | . | . | 0.0019 | . | 0.0030 | . | . | c 60 x 25 |
| 2 | ALC-A413.2-AD | . | . | . | 0.0025i | 0.0014 | . | . | 0.0029i | 0.0040i | 0.0026 | 0.0039 | . | 0.064i | c 57 x 25 |
| 1 | PY 1775 | . | . | . | . | . | . | . | . | . | . | 0.1920 | . | . | c 55 x 30 |
| 1 | V 3165-1 | . | . | <0.0003 | 0.010 | <0.0001 | 0.0002 | . | <0.0001 | <0.0002 | 0.0006 | 0.0081 | . | 0.14 | c 60 x 20 |
| 2 | AA SS-413 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c 64 x 25 |
| 1 | BAM EB316 | (0.0183) | . | (<0.00015) | (0.00113) | 0.00208 | (<0.00015) | (0.0035) | (0.000100) | . | . | (0.0056) | . | 0.0206 | c 50 x 30 |
| 1 | 54X G06H 4R | . | . | (0.0008) | 0.0024 | 0.0028 | 0.117 | . | 0.0018 | . | 0.0010 | . | . | 0.0024 | HIP ~65 x ~20 |

Si Alloys, chart 2 of 6

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|----------|---------|--------|--------|---------|--------|--------|---------|---------|--------------|----------|--------|--------|---------|---------|
| 1 | V 3164-4 | <0.0001 | <0.0002 | 0.0052 | 0.023 | 0.068 | 0.010 | 0.043 | 0.067 | 0.0023 | 0.0008 | 11.89 | <0.0003 | 0.022 | 0.0045 | 0.046 | 0.0049 |
| 2 | AA KC-413 | . | . | <0.0050 | 0.201 | 1.21 | . | 0.051 | 0.101 | 0.151 | . | 11.8 | 0.081 | 0.051 | . | 0.151 | . |
| 1 | AL 414/05 | . | . | 0.010 | 0.102 | 0.40 | 0.0041 | 0.490 | 0.25 | 0.013 | 0.0017 | 11.7 | 0.0047 | 0.069 | 0.0096 | 0.096 | 0.010 |
| 1 | 55X G02D 6K | 0.0026 | . | 0.366 | 0.510 | 0.528 | . | 0.376 | 0.300 | 0.0511 | 0.0580 | 11.55 | 0.0355 | 0.055 | 0.0182 | 0.577 | . |
| 3 | V 3004-3 | . | . | 0.011 | 0.095 | 0.37 | . | 0.57 | 0.35 | 0.26 | 0.17 | 11.50 | 0.051 | 0.076 | . | 0.20 | . |
| 1 | PY 9621 | 0.00096 | . | 0.0377 | 0.0260 | 0.464 | . | 0.0521 | 0.327 | 0.0572 | 0.0177 | 11.35 | 0.0944 | 0.1623 | . | 0.0919 | . |
| 1 | PY 9626 | 0.00096 | . | 0.0382 | 0.0249 | 0.471 | . | 0.0507 | 0.327 | 0.0579 | 0.0178 | 11.33 | 0.0936 | 0.1510 | . | 0.0931 | . |
| 1 | AL 413/05 | . | . | 0.0051 | 0.023 | 0.191 | 0.0044 | 0.097 | 0.026 | 0.0044 | 0.0035 | 11.29 | 0.0016 | 0.053 | 0.0057 | 0.0133 | 0.0050 |
| 1 | AL 423/03 | . | . | 0.010 | 0.0094 | 0.210 | 0.0037 | 0.246 | 0.062 | 0.011 | 0.0013 | 11.2 | 0.0060 | 0.028 | 0.0117 | 0.021 | 0.0067 |
| 1 | V 3108-2 | 0.00039 | 0.0037 | 0.0169 | 0.0609 | 0.648 | 0.00946 | 0.230 | 0.208 | 0.00205 | 0.00207 | 11.15 | 0.00228 | 0.0442 | 0.0073 | 0.0858 | 0.00456 |
| 1 | V 3167-1 | . | <0.0002 | 0.0005 | 0.0080 | 0.26 | 0.0066 | 0.068 | 0.076 | 0.0027 | 0.0010 | 11.05 | <0.0001 | 0.032 | 0.0004 | 0.010 | 0.0014 |
| 1 | AL 417/03 | . | . | 0.0015 | 0.0055 | 0.134 | 0.0098 | 0.220 | 0.0169 | 0.0029 | 0.0030 | 11.02 | 0.0002 | 0.0477 | . | 0.0196 | . |
| 2 | AA KA-413 | . | . | <0.0050 | 0.081 | 0.75 | . | 0.021 | 0.151 | 0.031 | 0.041 | 11.0 | 0.041 | 0.031 | . | 0.031 | . |
| 1 | V 3103-2 | . | . | 0.0020 | 0.098 | 0.38 | 0.0080 | 0.22 | 0.16 | 0.0043 | 0.0009 | 10.4 | <0.001 | 0.016 | 0.0044 | 0.22 | 0.0022 |
| 1 | AL 412/08 | . | 0.0046 | 0.031 | 0.037 | 0.375 | . | 0.25 | 0.156 | 0.024 | 0.0114 | 10.26 | . | 0.111 | . | 0.051 | . |
| 2 | AA SS-365-A | . | (0.0001) | 0.0006 | 0.0189 | 0.103 | 0.0062 | 0.320 | 0.64 | 0.0025 | 0.0006 | 10.3 | (0.0002) | 0.0912 | 0.0066 | 0.0200 | 0.0010 |
| 2 | AA KA-360 | . | . | <0.0050 | 0.40 | 0.35 | . | 0.45 | 0.101 | 0.25 | 0.201 | 10.0 | 0.031 | 0.021 | . | 0.25 | . |
| 1 | 54X G06H 3P | . | . | 0.0067 | 0.0530 | 0.322 | 0.510 | 0.202 | 0.345 | 0.214 | 0.0203 | 9.94 | 0.0488 | 0.079 | 0.0278 | 0.0270 | . |
| 1 | V 3110-1 | 0.0037 | <0.0005 | 0.021 | 0.0020 | 0.18 | 0.010 | 0.15 | 0.053 | 0.0024 | 0.0009 | 9.84 | <0.0004 | 0.053 | 0.0057 | 0.021 | 0.0014 |
| 3 | AJ 038 | . | 0.011 | 0.050 | 0.198 | 0.568 | . | 0.512 | 0.523 | 0.060 | 0.051 | 9.74 | 0.050 | 0.111 | 0.018 | 0.102 | . |
| 1 | V 3130-1 | . | 0.00180 | 0.00218 | 0.0331 | 0.1701 | 0.01999 | 0.295 | 0.652 | 0.00818 | 0.00432 | 9.73 | 0.00313 | 0.0514 | . | 0.01647 | 0.01002 |
| 1 | PY 9331 | . | . | 0.0007 | 0.0021 | 0.129 | . | 0.6082 | 0.925 | 0.0013 | 0.0194 | 9.68 | 0.0186 | 0.0122 | . | 0.0048 | . |
| 2 | AA SS-360 | <0.0005 | <0.0010 | <0.0050 | 0.25 | 0.60 | 0.021 | 0.55 | 0.151 | 0.171 | 0.051 | 9.61 | 0.071 | 0.061 | 0.011 | 0.171 | <0.0030 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Mo | Na | P | Sb | Sc | Sr | Units |
|---|-------------|----------|-----------|----------|---------|----------|----------|---------|----------|---------|---------|---------|----------|---------|-----------|----------------------|
| 1 | V 3164-4 | . | . | <0.0002 | 0.0067 | <0.0002 | <0.0002 | . | <0.0001 | . | 0.0005 | <0.0004 | <0.0004 | . | 0.054 | c 60 x 20 |
| 2 | AA KC-413 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.021 | c 64 x 25 |
| 1 | AL 414/05 | . | . | . | 0.0039 | 0.0013 | 0.0092 | 0.0004 | 0.00056 | . | 0.00017 | 0.0028 | 0.0016 | . | 0.033 | c 60 x 25 |
| 1 | 55X G02D 6K | . | . | . | . | 0.0115 | 0.0195 | . | . | . | . | . | 0.0150 | . | . | c ~50 x ~15 |
| 3 | V 3004-3 | . | . | . | 0.0095 | . | . | . | . | . | . | 0.002 | 0.0011 | . | . | c 60 x 20 |
| 1 | PY 9621 | . | . | . | . | . | . | . | . | . | . | . | 0.0076 | . | 0.1127 | c 55 x 30 |
| 1 | PY 9626 | . | . | . | . | . | . | . | . | . | . | . | 0.0074 | . | 0.1118 | c 55 x 30 |
| 1 | AL 413/05 | . | . | . | 0.0012 | . | . | . | . | 0.0005 | 0.0011 | 0.0054 | . | 0.056 | c 60 x 25 | |
| 1 | AL 423/03 | . | . | . | 0.0009 | 0.0035 | 0.220 | 0.0011 | 0.0002 | 0.0007 | 0.0011 | 0.0097 | . | 0.0005 | c 60 x 25 | |
| 1 | V 3108-2 | . | . | <0.0003 | 0.00364 | 0.00171 | 0.00098 | 0.00244 | 0.00041 | 0.076 | 0.00039 | 0.0014 | <0.001 | . | 0.0626 | c 60 x 20 Al: [87.4] |
| 1 | V 3167-1 | . | . | <0.0002 | 0.0010 | <0.0002 | <0.0003 | . | . | . | . | 0.0006 | <0.0003 | . | 0.0059 | c 60 x 20 |
| 1 | AL 417/03 | . | . | . | 0.0005 | 0.0037 | . | . | . | 0.00121 | . | . | . | . | 0.04601 | c 60 x 25 |
| 2 | AA KA-413 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.021 | c 64 x 25 |
| 1 | V 3103-2 | . | . | . | 0.0030 | . | . | . | . | . | . | 0.0005 | . | . | 0.068 | c 60 x 20 |
| 1 | AL 412/08 | . | . | . | 0.0089 | . | . | . | . | 0.0015 | 0.0068 | . | . | . | 0.0215 | c 60 x 25 |
| 2 | AA SS-365-A | (0.0001) | . | (0.0001) | 0.0018 | (0.0001) | (0.0002) | . | . | 0.00008 | 0.0007 | . | . | . | 0.0179 | c 64 x 25 |
| 2 | AA KA-360 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.021 | c 64 x 25 |
| 1 | 54X G06H 3P | . | . | . | . | 0.0048 | 0.0208 | . | (0.0008) | . | 0.004 | . | . | . | . | c ~50 x ~17 |
| 1 | V 3110-1 | . | . | <0.0003 | 0.0039 | <0.0002 | <0.0004 | . | <0.0002 | . | <0.0002 | 0.0015 | 0.091 | . | 0.0003 | c 60 x 20 |
| 3 | AJ 038 | . | . | . | (0.006) | . | . | . | . | . | . | (0.004) | (0.0086) | . | . | c 55 x 25 |
| 1 | V 3130-1 | . | Al:[89.0] | <0.0002 | 0.00102 | 0.00201 | . | . | 0.00025 | . | 0.00023 | 0.0021 | <0.0005 | . | 0.0149 | c 60 x 20 |
| 1 | PY 9331 | . | . | . | . | . | . | . | . | . | . | . | 0.0942 | . | . | c 55 x 30 |
| 2 | AA SS-360 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.021 | c 64 x 25 |

Si Alloys, chart 3 of 6

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|---------|---------|----------|--------|--------|--------|--------|--------|---------|---------|--------------|---------|--------|--------|--------|---------|
| 2 | AA KC-360 | . | . | <0.0050 | 0.30 | 1.1i | . | 0.58 | 0.15i | 0.20i | . | 9.6i | 0.12i | 0.02i | . | 0.25 | . |
| 1 | AL 411/04 | . | . | 0.0106 | 0.0102 | 0.134 | . | 0.0105 | 0.0243 | 0.0129 | 0.0050 | 9.60 | 0.0051 | 0.0154 | 0.0056 | 0.0156 | 0.0051 |
| 1 | AL 422/03 | . | . | 0.019 | 0.020 | 0.190 | 0.010 | 0.346 | 0.107 | 0.022 | 0.0047 | 9.4i | 0.0030 | 0.049 | 0.0083 | 0.052 | 0.0098 |
| 1 | AL 465/01 | 0.00095 | . | 0.027 | 0.095 | 0.566 | 0.0078 | 0.332 | 0.404 | 0.051 | 0.050 | 9.18 | 0.050 | 0.172 | 0.010 | 0.104 | 0.0097 |
| 2 | ALC-6490-AC | . | 0.046 | 0.037 | 0.039 | 0.32 | 0.014 | 0.22 | 0.036 | 0.040 | 0.038 | 9.02 | 0.039 | 0.042 | 0.005 | 0.049 | 0.021 |
| 2 | AA KB-360 | . | . | <0.0050 | 0.10i | 1.0i | . | 0.65 | 0.25 | 0.10i | 0.10i | 9.0i | 0.10i | 0.10i | . | 0.10i | . |
| 1 | AL 427/01 | . | . | (0.001) | 0.004 | 0.32 | . | 0.013 | 0.146 | 0.0020 | . | 8.93 | . | 0.0132 | 0.0044 | 0.014 | . |
| 2 | IMI 25WM5 | . | . | 0.10 | 0.075 | 0.42 | . | 0.19 | 0.15 | <0.005 | 0.07 | 8.36 | <0.005 | <0.005 | . | 0.015 | . |
| 1 | V 3013-4 | . | 0.0045 | 0.086 | 0.47 | 0.63 | 0.0206 | 0.83 | 0.65 | 0.10 | 0.25 | 8.33 | 0.3 | 0.10 | 0.0098 | 0.46 | 0.0054 |
| 2 | IMI 2WM3 | . | . | 0.09 | 0.41 | 1.19 | . | 0.19 | 0.35 | 0.21 | 0.10 | 8.33 | 0.10 | 0.11 | . | 0.70 | . |
| 2 | AA KA-358 | 0.22 | . | 0.02i | 0.08i | 0.20i | 0.02i | 0.65 | 0.05i | 0.02i | . | 8.0i | . | 0.12i | 0.01i | 0.06i | . |
| 1 | AL 455/01 | . | 0.0044 | 0.0326 | 0.053 | 0.33 | . | 0.54 | 0.103 | 0.055 | 0.0104 | 8.06 | 0.0052 | 0.0419 | 0.021 | 0.053 | 0.0100 |
| 1 | PY 1045 | . | . | . | 0.0610 | 0.287 | . | 0.112 | 0.0057 | 0.0500 | 0.1000 | 8.02 | 0.0780 | 0.2550 | . | 0.0870 | . |
| 1 | PY 6009 | . | . | 0.0117 | 0.0350 | 0.592 | . | 0.4340 | 0.152 | 0.0490 | 0.0064 | 7.95 | 0.0293 | 0.0845 | . | 0.0330 | . |
| 2 | ALC-4343-AF | 0.0013 | 0.037 | 0.032 | 0.050 | 0.50 | 0.023 | 0.031 | 0.052 | 0.029 | 0.021 | 7.84 | 0.018 | 0.031 | 0.026 | 0.050 | 0.0029 |
| 1 | V 3003-4 | . | 0.0028 | 0.0021 | 0.1422 | 0.34 | 0.0109 | 0.251 | 0.243 | 0.0507 | 0.0323 | 7.75 | 0.0198 | 0.0375 | 0.0048 | 0.1178 | 0.0011 |
| 2 | AA KB-356 | . | . | <0.0050 | 0.05i | 0.15i | 0.02i | 0.45 | 0.12i | <0.0050 | 0.06i | 7.5i | 0.06i | 0.16i | 0.01i | 0.04i | . |
| 1 | AL 454/02 | <0.0001 | . | 0.0073 | 0.011 | 0.095 | 0.017 | 0.429 | 0.030 | 0.0072 | . | 7.48 | . | 0.151 | 0.0103 | 0.0338 | 0.0107 |
| 2 | ALC-135-AQ | . | 0.042 | 0.040 | 0.053 | 0.18 | 0.009 | 0.037 | 0.035 | 0.038 | 0.047 | 7.4 | 0.04 | 0.015 | 0.012 | 0.044 | . |
| 1 | SRM 1255b | . | . | (0.0150) | 0.1161 | 0.1170 | 0.0175 | 0.3822 | 0.0527 | 0.0179 | 0.0182 | 7.298 | 0.1334 | 0.1535 | 0.0324 | 0.0842 | . |
| 2 | ALC-356.2-AX | 0.0011 | 0.0099 | 0.030 | 0.088 | 0.204 | 0.021 | 0.41 | 0.035 | 0.029 | 0.0086 | 7.27 | 0.020 | 0.171 | 0.020 | 0.079 | 0.0026 |
| 2 | ALC-356.2-AW | 0.0010 | 0.0086 | 0.027 | 0.081 | 0.21 | 0.02 | 0.39 | 0.033 | 0.031 | 0.0082 | 7.27 | 0.015 | 0.18 | 0.02 | 0.082 | 0.0021 |
| 1 | 54X G25D 4P | 0.0067 | 0.0705 | 0.043 | 0.148 | 0.14 | . | 0.151 | 0.195 | 0.0665 | 0.142 | 7.22 | 0.077 | 0.0978 | 0.0542 | 0.207 | . |
| 2 | HRT AL2019 | . | . | (0.002) | 0.44 | 0.09 | . | 0.39 | 0.07 | (0.003) | (0.003) | 7.16 | (0.002) | 0.11 | . | 0.008 | . |
| 2 | AA SS-356 | <0.0005 | <0.0010 | <0.0050 | 0.12i | 0.35 | 0.02i | 0.35 | 0.05i | 0.03i | <0.0030 | 7.1i | <0.0030 | 0.12i | 0.01i | 0.10i | <0.0030 |
| 2 | AA SS-A357 | 0.06i | <0.0010 | 0.02i | 0.05i | 0.10i | 0.02i | 0.60 | 0.02i | 0.02i | <0.0030 | 7.1i | <0.0030 | 0.12i | 0.01i | 0.03i | <0.0030 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sc | Sr | Units | |
|---|--------------|---------|---------|---------|----------|---------|---------|---------|---------|---------|----------|---------|---------|--------|-------|---------------|
| 2 | AA KC-360 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c | 64 x 25 |
| 1 | AL 411/04 | . | . | . | 0.00054i | . | . | . | . | 0.0046i | (0.0009) | . | . | . | c | 60 x 25 |
| 1 | AL 422/03 | . | . | <0.0002 | 0.0088 | . | 0.401 | . | . | 0.0038i | 0.0015 | 0.0047 | . | . | c | 60 x 25 |
| 1 | AL 465/01 | . | . | . | 0.0065 | . | . | . | . | 0.0013 | (0.004) | . | . | . | c | 60 x 25 |
| 2 | ALC-6490-AC | . | . | . | 0.010 | . | 0.45 | . | 0.0010 | 0.0014 | . | . | . | . | w | 57 x 25 |
| 2 | AA KB-360 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c | 64 x 25 |
| 1 | AL 427/01 | . | . | . | . | . | . | . | . | . | . | 0.37 | . | . | c | 60 x 25 |
| 2 | IMI 25WM5 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 58 x 7 |
| 1 | V 3013-4 | . | . | <0.0003 | 0.0072 | 0.0045 | . | . | <0.0002 | 0.0009 | 0.0013 | <0.001 | . | 0.083 | c | 60 x 20 |
| 2 | IMI 2WM3 | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 58 x 7 |
| 2 | AA KA-358 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c | 64 x 25 |
| 1 | AL 455/01 | . | . | . | . | . | . | . | . | 0.0031 | 0.0022 | . | . | . | c | 60 x 25 |
| 1 | PY 1045 | . | . | . | . | . | . | . | . | . | . | 0.451 | . | . | c | 55 x 30 |
| 1 | PY 6009 | . | . | . | . | . | . | . | . | . | . | 0.0460 | . | . | c | 55 x 30 |
| 2 | ALC-4343-AF | . | . | . | 0.0028i | 0.0010 | . | . | 0.0022i | 0.0027i | 0.0042i | 0.0042 | . | 0.011i | w | 57 x 25 |
| 1 | V 3003-4 | . | . | <0.0002 | 0.0018 | 0.005 | <0.0003 | . | . | . | 0.0008 | <0.0005 | . | 0.0367 | c | 60 x 20 |
| 2 | AA KB-356 | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c | 64 x 25 |
| 1 | AL 454/02 | . | . | . | 0.0031 | . | . | . | . | . | 0.0011 | . | . | . | c | 60 x 25 |
| 2 | ALC-135-AQ | . | . | . | . | . | . | . | . | . | . | . | . | . | w | 57 x 25 |
| 1 | SRM 1255b | . | . | . | . | . | . | . | . | . | . | . | . | 0.0140 | . | 63 x 19 |
| 2 | ALC-356.2-AX | . | . | 0.0001 | 0.0031 | 0.0010 | . | . | 0.0035i | 0.0022i | 0.0023 | 0.0029 | . | 0.0159 | w | 57 x 25 |
| 2 | ALC-356.2-AW | . | . | . | 0.0037i | 0.0011 | . | . | 0.0024i | 0.0028i | 0.002 | 0.0029 | . | 0.031i | c | 57 x 25 |
| 1 | 54X G25D 4P | . | . | . | . | 0.0070 | 0.0204 | . | . | . | . | . | . | . | c | ~50 x ~15 |
| 2 | HRT AL2019 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 40 x 20 |
| 2 | AA SS-356 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c | 64x25 or 25x6 |
| 2 | AA SS-A357 | <0.0010 | <0.0010 | <0.0010 | <0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.02i | c | 64 x 25 |

Si Alloys, chart 5 of 6

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|----------|-------------|---------|--------|---------|--------|----------|
| 2 | AA KA-443 | . | . | 0.05i | 0.05i | 0.65 | . | 0.08i | 0.15i | 0.08i | 0.02i | 4.5i | 0.02i | 0.04i | . | 0.15i | . |
| 2 | ALC-4002-AD | . | 0.018 | 0.019 | 0.15 | 0.39 | 0.016 | 0.14 | 0.032 | 0.0027 | 0.022 | 4.38 | 0.028 | 0.019 | 0.007 | 0.028 | . |
| 1 | V 3106-1 | . | . | 0.0028 | 0.12 | 0.32 | . | 0.096 | 0.056 | . | . | 4.19 | . | 0.033 | 0.0024 | 0.064 | 0.0015 |
| 2 | ALC-X4002-AA | . | 1.06i | 0.028 | 0.13 | 0.29 | 0.031 | 0.13 | 0.037 | 0.038 | 0.034 | 4.10 | 0.029 | 0.019 | 0.027 | 0.045 | 0.014 |
| 1 | AL 623/01 | . | . | 0.019 | 0.047 | 0.22 | . | 0.50 | 0.23 | <0.001 | . | 3.96 | . | 0.10 | 0.0115 | 0.060 | . |
| 1 | 54X G25D 2K | 0.049 | 0.22 | 0.150 | 0.130 | 0.576 | . | 0.59 | 0.479 | 0.139 | 0.073 | 3.93 | 0.042 | 0.152 | (0.006) | 0.169 | . |
| 1 | PY 9906 | . | . | 0.0114 | 0.0132 | 0.423 | . | 0.928 | 0.034 | 0.0378 | 0.0023 | 3.92 | 0.0003 | 0.0259 | . | 0.0033 | . |
| 2 | ALC-4643-AD | 0.0012 | 0.0053 | 0.029 | 0.029 | 0.25 | 0.019 | 0.11i | 0.029 | 0.029 | 0.0077 | 3.88 | 0.019 | 0.028 | 0.017 | 0.029 | 0.0032 |
| 1 | 54X G25D 1L | 0.0011 | 0.112 | 0.140 | 0.010 | 0.72i | . | 0.67 | 0.815 | 0.262 | (0.0033) | 3.37 | <0.005 | 0.099 | 0.016 | 0.359 | (0.0036) |
| 1 | AL 622/01 | . | . | 0.010 | 0.030 | 0.16 | . | 0.41 | 0.15 | . | . | 2.90 | . | 0.070 | 0.0066 | 0.040 | . |
| 1 | PY 1005 | . | . | 0.0609 | 0.1011 | 0.351 | . | 0.573 | 0.402 | 0.0914 | 0.021 | 2.14 | 0.091 | 0.070 | . | 0.051 | . |
| 1 | AL 621/01 | 0.018 | . | 0.0065 | 0.010 | 0.080 | . | 0.29 | 0.050 | <0.001 | . | 2.02 | . | 0.056 | 0.0045 | 0.024 | . |
| 3 | V 2101 | 0.0009 | . | 0.10 | 0.053 | 0.36 | . | 0.82 | 0.60 | . | 0.0043 | 1.44 | . | 0.023 | . | 0.066 | . |
| 2 | AA SS-6070 | <0.0005 | <0.0010 | 0.06i | 0.30 | 0.25 | 0.015 | 0.80 | 0.70 | 0.02i | <0.0030 | 1.3i | <0.0010 | 0.05i | 0.01i | 0.15i | <0.0030 |
| 2 | AA WP-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.90 | 0.03i | 0.03i | . | 1.3i | . | 0.03i | . | 0.03i | . |
| 1 | 55X G900J 4F | . | 0.285 | 0.343 | 0.249 | 0.306 | . | 0.459 | 0.75 | 0.351 | 0.088 | 1.39 | 0.153 | 0.171 | . | 0.149 | . |
| 1 | V 2103-1 | 0.0051 | 0.0006 | 0.11 | 0.13 | 0.49 | 0.011 | 0.80 | 0.71 | 0.0029 | 0.0042 | 1.37 | . | 0.052 | 0.0031 | 0.11 | 0.0015 |
| 1 | PY 813 | . | . | 0.1249 | 0.0080 | 0.3970 | . | 0.0002 | 0.0044 | 0.0023 | 0.0005 | 1.26 | 0.0005 | 0.0055 | . | 0.0052 | . |
| 1 | V 2014-1 | . | . | 0.053 | 0.093 | 0.205 | 0.0031 | 0.44 | 0.100 | 0.0098 | 0.0056 | 1.25 | . | 0.0495 | 0.020 | 0.0214 | . |
| 1 | BAM M318 | 0.00047 | . | 0.0208 | 0.090 | 0.246 | 0.0189 | 0.356 | 0.098 | 0.0050 | 0.0056 | 1.21 | 0.0020 | 0.023 | 0.0104 | 0.048 | 0.0032 |
| 2 | ALC-6351-AM | 0.0012 | 0.0070 | 0.029 | 0.077 | 0.21 | 0.019 | 0.64 | 0.57 | 0.030 | 0.0083 | 1.09 | 0.018 | 0.051 | 0.020 | 0.050 | 0.0025 |
| 3 | AJ 015 | . | . | 0.020 | 0.052 | 0.286 | . | (0.69) | 0.549 | 0.012 | . | 1.06 | . | 0.089 | . | 0.018 | . |
| 1 | AL 634/02 | . | 0.0028 | 0.031 | 0.085 | 0.425 | . | 0.840 | 0.759 | 0.033 | 0.0021 | 1.05 | 0.0009 | 0.071 | 0.0152 | 0.032 | 0.0013 |
| 2 | AA SS-6010 | <0.0005 | <0.0010 | 0.04i | 0.32 | 0.25 | 0.02i | 0.80 | 0.32 | 0.03i | <0.0030 | 1.0i | <0.0010 | 0.03i | 0.01i | 0.12i | <0.0030 |
| 2 | AA SS-6151 | <0.0005 | <0.0010 | 0.22i | 0.25 | 0.45 | 0.015 | 0.65 | 0.06i | 0.04i | <0.0030 | 1.0i | <0.0010 | 0.03i | 0.01i | 0.08i | <0.0030 |
| 2 | AA SS-6351 | <0.0005 | <0.0010 | 0.03i | 0.05i | 0.30 | 0.02i | 0.65 | 0.70 | 0.02i | <0.0030 | 1.0i | <0.0010 | 0.02i | 0.01i | 0.03i | <0.0030 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | In | Li | Na | P | Sb | Sc | Sr | Units | |
|---|--------------|---------|---------|-----------|---------|---------|---------|---------|---------|----------|------------|---------|----------|---------|---------|-------|---------|
| 2 | AA KA-443 | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.02i | c | 64 x 25 |
| 2 | ALC-4002-AD | . | . | . | . | 1.28 | . | . | . | . | . | . | . | . | . | w | 57 x 25 |
| 1 | V 3106-1 | . | . | . | 0.0010 | . | . | . | . | . | <0.0003 | <0.001 | . | . | <0.0002 | c | 60 x 20 |
| 2 | ALC-X4002-AA | . | . | . | 0.0065i | 0.04i | . | . | . | 0.0022i | 0.0016 | 0.006 | . | . | 0.008 | w | 57 x 25 |
| 1 | AL 623/01 | . | . | . | 0.0080 | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 1 | 54X G25D 2K | . | . | . | . | 0.011 | 0.105 | . | . | . | . | . | . | . | . | c | 40 x 15 |
| 1 | PY 9906 | . | . | . | . | 0.0043 | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 2 | ALC-4643-AD | . | . | . | 0.0031i | 0.0011i | . | . | . | 0.0028i | 0.0032i | 0.0030 | 0.0031 | . | 0.0098i | w | 57 x 25 |
| 1 | 54X G25D 1L | . | . | . | . | . | . | . | . | (0.0003) | . | . | . | . | . | c | 40 x 15 |
| 1 | AL 622/01 | . | . | . | 0.007 | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 1 | PY 1005 | . | . | . | . | 0.0040 | . | . | . | . | . | . | 0.0026 | . | . | c | 55 x 30 |
| 1 | AL 621/01 | . | . | . | 0.005 | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 3 | V 2101 | . | . | . | 0.0009 | . | . | . | . | 0.0005 | 0.0008 | . | . | . | . | c | 60 x 20 |
| 2 | AA SS-6070 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AA WP-6000 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | 55X G900J 4F | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 40 x 15 |
| 1 | V 2103-1 | . | . | 0.0005 | 0.0006 | <0.0002 | <0.0004 | . | <0.0002 | <0.0002 | <0.0002 | . | . | . | <0.0002 | c | 60 x 20 |
| 1 | PY 813 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 30 |
| 1 | V 2014-1 | . | . | <0.0002 | <0.0002 | <0.0002 | <0.0002 | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | BAM M318 | . | . | (<0.0002) | 0.0009 | 0.0009 | . | 0.0007 | . | 0.00060 | (<0.00037) | . | . | . | . | c | 65 x 30 |
| 2 | ALC-6351-AM | . | . | . | 0.0034 | 0.0011 | . | . | . | 0.0032i | 0.0025i | 0.0025 | (0.0023) | . | 0.0035 | w | 57 x 25 |
| 3 | AJ 015 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 55 x 25 |
| 1 | AL 634/02 | . | . | . | . | . | . | . | . | . | 0.0014i | 0.0008 | 0.0004 | . | . | c | 60 x 25 |
| 2 | AA SS-6010 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AA SS-6151 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | AA SS-6351 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |

Si Alloys, chart 6 of 6

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|--------|--------|--------|--------|--------|---------|--------|---------|---------|---------------|---------|--------|---------|--------|--------|
| 1 | AL 633/01 | . | . | . | 0.039 | 0.340 | . | 0.73 | 0.275 | . | . | 0.98 | . | 0.056 | 0.0095 | 0.130 | . |
| 1 | V 2110-2 | 0.001 | 0.0039 | 0.0097 | 0.069 | 0.235 | 0.0084 | 0.616 | 0.521 | 0.0094 | 0.0052 | 0.95 | 0.0051 | 0.0246 | 0.0069 | 0.0099 | 0.0028 |
| 3 | AJ 034 | 0.0027 | 0.030 | 0.053 | 0.105 | 1.93 | 0.058 | 0.045 | 0.469 | 0.053 | 0.030 | 0.831 | 0.028 | 0.055 | 0.058 | 0.047 | 0.049 |
| 3 | V 1408 | . | . | 0.026 | 0.035 | 0.75 | 0.011 | 0.048 | 0.056 | 0.0022 | 0.0014 | 0.82 | . | 0.0049 | 0.023 | 0.048 | 0.002 |
| 2 | ALC-8018-AB | 0.0010 | 0.0076 | 0.017 | 0.46 | 0.77 | 0.015 | 0.0075i | 0.069 | 0.015 | 0.0094 | 0.76 | 0.015 | 0.043 | 0.016 | 0.015 | 0.0030 |
| 1 | AL 632/03 | 0.0021 | 0.0051 | 0.0222 | 0.0327 | 0.213 | . | 0.476 | 0.423 | 0.0082 | 0.0058 | 0.735 | 0.0059 | 0.0283 | 0.0048 | 0.0534 | . |
| 1 | V 2010-2 | 0.00097 | . | 0.0504 | 0.1014 | 0.218 | 0.0205 | 0.493 | 0.1116 | 0.01286 | 0.00840 | 0.747 | 0.00822 | 0.0919 | 0.01631 | 0.0757 | 0.0382 |
| 1 | V 2015-1 | 0.0010 | 0.0053 | 0.0173 | 0.099 | 0.202 | 0.026 | 0.34 | 0.107 | 0.0342 | 0.0036 | 0.70 | 0.0051 | 0.0373 | 0.112 | 0.0221 | 0.0053 |
| 2 | AA WA-6000 | . | . | 0.03i | 0.10i | 0.30 | . | 0.45 | 0.03i | 0.03i | . | 0.60 | . | 0.03i | . | 0.03i | . |
| 1 | PY 6012 | . | . | 0.0110 | 0.1420 | 0.7850 | 0.0226 | 0.1210 | 0.1290 | 0.0097 | <0.0002 | 0.5750 | 0.0003 | 0.0485 | . | 0.1970 | . |
| 3 | V 1409-1 | . | . | 0.048 | 0.09 | 0.68 | 0.05 | 0.05 | 0.047 | 0.049 | 0.045 | 0.56 | 0.049 | 0.033 | 0.031 | 0.052 | 0.0029 |
| 2 | ALC-8112-AA | 0.0011 | 0.011 | 0.024 | 0.26 | 0.66 | 0.028 | 0.014 | 0.11 | 0.020 | 0.008 | 0.52 | 0.018 | 0.028 | 0.028 | 0.035 | 0.015 |
| 3 | V 2001 | . | . | 0.0015 | 0.0055 | 0.13 | . | 0.41 | 0.024 | . | . | 0.52 | . | 0.0055 | . | 0.0062 | . |
| 1 | AL 142/03 | 0.0009 | . | 0.050 | 0.049 | 0.481 | . | 0.047 | 0.055 | 0.048 | 0.0047 | 0.471 | 0.0047 | 0.030 | 0.0077 | 0.078 | 0.0100 |

| # | Number | Ag | As | B | Ca | Cd | Co | Hg | Li | Na | P | Sb | Sr | Units | |
|---|-------------|----|--------|----------|----------|---------|--------|---------|-----------|----------|----------|---------|----------|---------|---------|
| 1 | AL 633/01 | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 | |
| 1 | V 2110-2 | . | . | 0.0009 | 0.0022 | 0.0017 | 0.0014 | . | 0.0019 | 0.0016 | 0.0031 | 0.0049 | 0.0017 | c | 60 x 20 |
| 3 | AJ 034 | . | . | (0.0005) | (0.0012) | . | . | . | (0.00009) | (0.0006) | (0.0027) | . | (0.0020) | c | 55 x 25 |
| 3 | V 1408 | . | . | 0.001 | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 2 | ALC-8018-AB | . | . | . | 0.0016i | 0.0016 | . | . | 0.0015i | 0.0017i | 0.0026 | 0.0036 | 0.0031i | w | 57 x 25 |
| 1 | AL 632/03 | . | . | (0.0001) | 0.0005 | . | . | . | 0.00025 | 0.0004 | . | . | . | c | 60 x 25 |
| 1 | V 2010-2 | . | 0.0012 | <0.0003 | 0.00355 | 0.00196 | . | 0.00233 | 0.00089 | 0.00107 | . | 0.00113 | 0.00206 | c | 60 x 20 |
| 1 | V 2015-1 | . | . | . | 0.0019 | 0.0010 | . | . | . | 0.0012 | 0.0007 | . | 0.0008 | c | 60 x 20 |
| 2 | AA WA-6000 | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | PY 6012 | . | . | . | . | . | . | . | . | . | . | 0.0022 | . | c | 55 x 30 |
| 3 | V 1409-1 | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 2 | ALC-8112-AA | . | . | . | 0.0025i | 0.0035 | . | . | 0.0012i | 0.0026i | 0.0056 | 0.0051 | 0.0044i | w | 57 x 25 |
| 3 | V 2001 | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 20 |
| 1 | AL 142/03 | . | . | (0.0008) | 0.0008 | 0.0009 | 0.0019 | . | 0.00009i | 0.0009i | . | 0.0061 | . | c | 60 x 25 |

RM Si - Silicon Binaries

| Number | Si | Fe | Form | Units |
|---------|-------|-------|------|---------|
| AA SI-9 | 12.5 | (0.5) | cast | 64 x 25 |
| AA SI-8 | 10.0 | (0.5) | cast | 64 x 25 |
| AA SI-7 | 7.0i | (0.5) | cast | 64 x 25 |
| AA SI-6 | 5.0i | (0.5) | cast | 64 x 25 |
| AA SI-5 | 3.0i | (0.5) | cast | 64 x 25 |
| AA SI-4 | 2.2i | (0.5) | cast | 64 x 25 |
| AA SI-3 | 1.6i | (0.5) | cast | 64 x 25 |
| AA SI-2 | 1.0i | (0.5) | cast | 64 x 25 |
| AA SI-1 | 0.50i | (0.5) | cast | 64 x 25 |

CRM Si Alloy Sets

available as SETS ONLY, as grouped

62 mm Ø x 30 mm

| Number | Si | Cu | Fe | Mg | Mn | Ni | Pb | Sn | Sr | Ti | Zn | Zr | Be | Ca | Cr |
|----------------|-------|---------|-------|-------|-------|-------|---------|----------|----------|--------|-------|-------|----|----|---------|
| NCS HS49709-1a | 10.81 | 0.650 | 0.518 | 1.34 | 0.33 | 1.32 | 0.015 | 0.046 | . | 0.083 | 0.201 | . | . | . | . |
| NCS HS49709-2a | 11.56 | 0.913 | 0.213 | 0.837 | 0.648 | 0.818 | 0.149 | 0.108 | . | 0.109 | 0.161 | . | . | . | . |
| NCS HS49709-3a | 7.08 | 1.13 | . | 1.14 | . | 1.00 | 0.039 | 0.0085 | . | 0.056 | 0.098 | . | . | . | . |
| NCS HS49709-4a | 12.46 | 1.26 | 0.358 | 0.654 | 0.811 | 0.595 | 0.032 | 0.0099 | . | 0.148 | 0.113 | . | . | . | . |
| NCS HS49709-5a | 8.69 | 0.410 | 0.082 | 1.55 | 0.092 | 1.58 | 0.0025 | 0.019 | . | 0.021 | 0.252 | . | . | . | . |
| NCS HS49709-6a | 13.96 | 1.56 | 0.738 | 0.248 | 0.422 | 0.284 | 0.087 | 0.061 | . | 0.182 | 0.055 | . | . | . | 0.0074 |
| NCS HS49716b-1 | 7.61 | 0.498 | 0.699 | 0.448 | 0.698 | 0.143 | 0.014 | 0.073 | (0.0002) | 0.019 | 2.93 | . | . | . | . |
| NCS HS49716b-2 | 9.68 | 3.16 | 1.43 | 0.126 | 0.561 | 0.248 | 0.055 | 0.156 | 0.012 | 0.011 | 1.97 | . | . | . | . |
| NCS HS49716b-3 | 10.69 | 2.63 | 1.01 | 0.195 | 0.397 | 0.278 | 0.048 | 0.202 | 0.096 | 0.059 | 1.15 | . | . | . | . |
| NCS HS49716b-4 | 12.29 | 2.02 | 1.06 | 0.265 | 0.261 | 0.427 | 0.122 | 0.275 | 0.106 | 0.018 | 1.54 | . | . | . | . |
| NCS HS49716b-5 | 13.98 | 1.24 | 0.359 | 0.369 | 0.101 | 0.594 | 0.165 | 0.332 | 0.167 | 0.101 | 0.677 | . | . | . | . |
| NCS HS49716b-6 | 6.06 | 4.06 | 1.90 | 0.049 | 0.051 | 0.081 | 0.0056 | 0.043 | 0.051 | 0.0071 | 0.321 | . | . | . | . |
| NCS HS49701e-1 | 10.25 | 0.505 | 1.08 | 0.437 | 0.291 | 0.120 | 0.190 | 0.061 | 0.155 | 0.081 | 0.385 | . | . | . | 53 x 35 |
| NCS HS49701e-2 | 5.52 | 1.16 | 0.759 | 0.897 | 0.456 | 0.088 | 0.107 | 0.040 | 0.074 | 0.111 | 0.646 | . | . | . | 53 x 35 |
| NCS HS49701e-3 | 13.15 | 2.04 | 0.188 | 0.744 | 0.544 | 0.060 | 0.066 | 0.019 | 0.045 | 0.042 | 0.204 | . | . | . | 53 x 35 |
| NCS HS49701e-4 | 3.63 | 3.93 | 0.394 | 1.07 | 1.03 | 0.063 | 0.037 | 0.0069 | 0.072 | 0.146 | 0.930 | . | . | . | 53 x 35 |
| NCS HS49701e-5 | 8.03 | 0.084 | 0.626 | 0.036 | 0.809 | 0.174 | 0.0078 | 0.0018 | 0.0058 | 0.017 | 0.028 | . | . | . | 53 x 35 |
| NCS HS49701e-6 | 0.845 | 4.91 | 1.44 | 1.46 | 0.080 | 0.033 | 0.143 | 0.118 | 0.0050 | 0.185 | 1.26 | . | . | . | 53 x 35 |
| NCS HS49740-1 | 6.92 | (0.017) | 0.090 | 0.538 | 0.101 | . | (0.010) | (0.0096) | . | 0.027 | 0.295 | 0.028 | . | . | . |
| NCS HS49740-2 | 8.24 | 0.049 | 0.165 | 0.371 | 0.395 | . | 0.105 | (0.018) | . | 0.069 | 0.136 | 0.207 | . | . | . |
| NCS HS49740-3 | 9.21 | 0.079 | 0.435 | 0.303 | 0.608 | . | 0.046 | 0.0068 | . | 0.175 | 0.234 | 0.111 | . | . | . |
| NCS HS49740-4 | 10.02 | 0.081 | 0.392 | 0.183 | 0.240 | . | 0.085 | 0.013 | . | 0.135 | 0.215 | 0.078 | . | . | . |
| NCS HS49740-5 | 11.30 | 0.132 | 0.269 | 0.089 | 0.512 | . | 0.129 | 0.018 | . | 0.275 | 0.079 | 0.150 | . | . | . |
| NCS HS49744-1 | 6.78 | 4.64 | 0.166 | 0.063 | 0.531 | 0.024 | . | . | . | . | 0.097 | . | . | . | . |
| NCS HS49744-2 | 7.55 | 4.00 | 0.443 | 0.124 | 0.451 | 0.024 | 0.0059 | 0.043 | . | . | 0.374 | . | . | . | . |
| NCS HS49744-3 | 8.54 | 3.31 | 0.706 | 0.172 | 0.326 | 0.244 | 0.019 | 0.072 | . | . | 0.736 | . | . | . | . |
| NCS HS49744-4 | 9.10 | 2.92 | 0.998 | 0.239 | 0.204 | 0.414 | 0.065 | 0.113 | . | . | 0.977 | . | . | . | . |
| NCS HS49744-5 | 9.99 | 2.49 | 1.32 | 0.292 | 0.099 | 0.515 | 0.112 | 0.146 | . | . | 1.08 | . | . | . | . |

| Number | Si | Cu | Fe | Mg | Mn | Ni | Pb | Sn | Sr | Ti | Zn | Zr | Be | Ca | Cr |
|----------------|-------|-------|-------|-------|--------|-------|--------|----------|----|--------|-------|-------|--------|----|-------|
| NCS HS49718a-1 | 5.54 | 0.311 | 0.180 | 0.094 | 0.477 | . | 0.016 | 0.0098 | . | 0.241 | 0.380 | 0.044 | 0.0088 | . | . |
| NCS HS49718a-2 | 6.01 | 0.254 | 0.429 | 0.183 | 0.337 | . | 0.030 | 0.018 | . | 0.193 | 0.258 | 0.080 | 0.012 | . | . |
| NCS HS49718a-3 | 6.62 | 0.429 | 0.805 | 0.281 | 0.267 | . | 0.065 | 0.028 | . | 0.136 | 0.166 | 0.164 | 0.017 | . | . |
| NCS HS49718a-4 | 7.28 | 0.163 | 0.939 | 0.384 | 0.165 | . | 0.072 | 0.045 | . | 0.085 | 0.072 | 0.191 | 0.024 | . | . |
| NCS HS49718a-5 | 8.34 | 0.066 | 1.10 | 0.495 | 0.070 | . | 0.113 | 0.053 | . | 0.042 | 0.013 | 0.196 | 0.054 | . | . |
| NCS HS49742-1 | 6.03 | 0.080 | 0.076 | 0.140 | 0.040 | . | . | . | . | 0.083 | 0.038 | . | . | . | . |
| NCS HS49742-2 | 6.53 | 0.131 | 0.238 | 0.211 | 0.130 | . | . | . | . | 0.127 | 0.121 | . | . | . | . |
| NCS HS49742-3 | 7.17 | 0.179 | 0.396 | 0.290 | 0.211 | . | . | . | . | 0.136 | 0.206 | . | . | . | . |
| NCS HS49742-4 | 7.79 | 0.243 | 0.571 | 0.381 | 0.313 | . | . | . | . | 0.219 | 0.304 | . | . | . | . |
| NCS HS49742-5 | 8.00 | 0.295 | 0.758 | 0.494 | 0.404 | . | . | . | . | 0.223 | 0.422 | . | . | . | . |
| NCS HS49742-6 | 5.57 | 0.065 | 0.076 | 0.584 | 0.011 | . | . | . | . | 0.0070 | 0.013 | . | . | . | . |
| NCS HS49741-1 | 4.36 | 2.52 | 0.475 | 0.163 | 0.0187 | . | 0.0090 | (0.0063) | . | 0.041 | 0.010 | 0.181 | 0.0047 | . | . |
| NCS HS49741-2 | 3.69 | 2.01 | 0.364 | 0.317 | 0.134 | . | 0.029 | 0.017 | . | 0.118 | 0.067 | 0.172 | 0.021 | . | . |
| NCS HS49741-3 | 4.89 | 1.45 | 0.294 | 0.421 | 0.245 | . | 0.051 | 0.019 | . | 0.154 | 0.151 | 0.107 | 0.011 | . | . |
| NCS HS49741-4 | 5.05 | 1.02 | 0.186 | 0.600 | 0.347 | . | 0.088 | (0.014) | . | 0.175 | 0.201 | 0.137 | 0.014 | . | . |
| NCS HS49741-5 | 5.67 | 0.514 | 0.110 | 0.686 | 0.497 | . | 0.142 | 0.022 | . | 0.234 | 0.305 | 0.040 | 0.014 | . | . |
| NCS HS49703c-1 | 0.541 | 0.040 | 0.206 | 1.17 | 0.864 | 0.059 | . | . | . | 0.114 | 0.297 | . | . | . | 0.085 |
| NCS HS49703c-2 | 1.01 | 0.228 | 0.363 | 0.693 | 0.522 | 0.043 | . | . | . | 0.055 | 0.226 | . | . | . | 0.161 |
| NCS HS49703c-3 | 1.24 | 0.487 | 0.428 | 0.933 | 0.233 | 0.027 | . | . | . | 0.026 | 0.094 | . | . | . | 0.354 |
| NCS HS49703c-4 | 0.235 | 0.705 | 0.697 | 0.411 | 1.18 | 0.089 | . | . | . | 0.066 | 0.166 | . | . | . | 0.218 |
| NCS HS49703c-5 | 1.58 | 0.078 | 0.848 | 0.068 | 1.48 | 0.115 | . | . | . | 0.0083 | 0.041 | . | . | . | 0.288 |
| NCS HS49703c-6 | 0.052 | 0.927 | 0.074 | 1.46 | 0.042 | 0.013 | . | . | . | 0.160 | 0.361 | . | . | . | 0.039 |

| Number | Si | Cu | Fe | Mg | Mn | Ni | Pb | Sn | Sr | Ti | Zn | Zr | Be | Ca | Cr |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|

Si/Zn Alloys

| # | Number | Be | Bi | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|--------------|--------|---------|--------|--------|-------|--------|--------|-------|--------|--------|--------------|--------|--------|--------|-------|--------|
| 2 | ALC-X4045-AC | 0.0009 | 0.008 | 0.013 | 0.015 | 0.32 | 0.016 | 0.015 | 0.013 | 0.014 | 0.008 | 10.03 | 0.012 | 0.013 | 0.012 | 0.99 | 0.0031 |
| 1 | V 3403-2 | . | <0.0003 | 0.0095 | 0.075 | 0.59 | 0.0093 | 0.36 | 0.072 | 0.0055 | 0.0032 | 9.35 | <0.001 | 0.0087 | 0.0033 | 7.4 | 0.012 |
| 1 | V 3402-2 | . | <0.0002 | 0.0028 | 0.044 | 0.39 | 0.009 | 0.39 | 0.050 | 0.0025 | 0.0009 | 8.94 | <0.001 | 0.0081 | 0.0034 | 9.9 | 0.0014 |
| 1 | V 3401-2 | . | <0.0002 | 0.0035 | 0.061 | 0.27 | 0.0073 | 0.23 | 0.036 | 0.011 | 0.0011 | 7.99 | <0.001 | 0.0051 | 0.0029 | 10.7 | 0.0026 |
| 2 | ALC-X4343-AA | 0.0016 | 0.019 | 0.025 | 0.048 | 0.53 | 0.025 | 0.051 | 0.046 | 0.029 | 0.016 | 7.57 | 0.017 | 0.031 | 0.028 | 0.98 | 0.026 |
| 3 | V 3410-2 | . | . | 0.0013 | 0.44 | 0.60 | . | 0.19 | 0.37 | <0.005 | 0.002 | 7.35 | . | 0.0072 | . | 10.7 | . |
| 1 | AL 873/01 | . | . | 0.032 | 0.049 | 0.26 | . | 0.535 | 0.104 | 0.006 | . | 7.25 | . | 0.0154 | . | 11.0 | . |
| 1 | V 3400-2 | . | 0.0002 | 0.0018 | 0.047 | 0.25 | 0.0067 | 0.45 | 0.021 | 0.028 | 0.011 | 6.87 | 0.0007 | 0.0065 | 0.0051 | 8.93 | <0.001 |
| 3 | AJ 023 | 0.0027 | 0.011 | 0.094 | 0.140 | 0.597 | 0.040 | 0.452 | 0.539 | 0.028 | 0.0085 | 2.29 | 0.019 | 0.095 | 0.023 | 0.932 | 0.020 |
| 2 | 45X-ZnAl-7C | . | . | . | 0.0050 | 0.077 | . | 0.0070 | . | 0.0049 | 0.010 | 1.59 | 0.0096 | 0.0049 | . | 47.5 | . |

| # | Number | Ag | Al | B | Ca | Cd | Co | Li | Na | P | Sb | Sr | Units |
|---|--------------|---------|----|---------|---------|---------|--------|-----------|---------|----------|---------|----------|-------------------------------------|
| 2 | ALC-X4045-AC | . | . | . | 0.0024i | 0.0013 | . | 0.0019i | 0.0014i | 0.0058 | 0.0038 | 0.0029i | w 57 x 25 |
| 1 | V 3403-2 | <0.0002 | . | <0.0005 | 0.0071 | <0.0003 | . | . | . | 0.0017 | <0.0002 | 0.040 | c 60 x 20 |
| 1 | V 3402-2 | <0.0002 | . | <0.0005 | 0.0028 | <0.0003 | . | . | . | 0.0006 | <0.0001 | <0.0003 | c 60 x 20 |
| 1 | V 3401-2 | <0.0002 | . | <0.0005 | 0.0008 | <0.0003 | . | . | . | 0.0006 | <0.0001 | 0.017 | c 60 x 20 |
| 2 | ALC-X4343-AA | . | . | . | 0.0023i | . | . | 0.0004i | 0.0006i | 0.0019 | . | . | w 57 x 25 |
| 3 | V 3410-2 | . | . | 0.0005 | 0.0006 | . | . | . | . | 0.002 | . | <0.001 | c 60 x 20 |
| 1 | AL 873/01 | . | . | . | . | . | . | . | . | . | . | . | c 60 x 25 |
| 1 | V 3400-2 | 0.0008 | . | 0.0001 | 0.0046 | <0.0003 | . | . | . | 0.0021 | 0.0003 | <0.0002 | c 60 x 20 |
| 3 | AJ 023 | . | . | . | 0.0019 | 0.0075 | 0.0089 | (0.00008) | 0.0014 | (0.0018) | . | 0.0006 | c 55 x 25 |
| 2 | 45X-ZnAl-7C | . | . | . | . | . | . | . | . | . | . | (0.0004) | cc 55 x 25 <-SOLD OUT, NOT REPLACED |

Zn Alloys

| # | Number | Be | Ca | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr |
|---|-------------|---------|---------|--------|-------|-------|--------|-------|-------|--------|---------|-------|---------|--------|----------|-------|---------|
| 2 | AA ZN-7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 10.0i | . |
| 2 | AA SS-713 | <0.0010 | <0.0010 | 0.06i | 0.80 | 0.55 | 0.02i | 0.40 | 0.20i | 0.05i | <0.0030 | 0.12i | <0.0010 | 0.20i | 0.01i | 7.6i | <0.0030 |
| 1 | 58X G40H 7B | 0.0012 | . | 0.0018 | 0.050 | 0.101 | . | 0.304 | 0.078 | 0.142 | 0.054 | 0.161 | 0.067 | 0.0045 | (0.0016) | 7.16 | 0.0030 |
| 2 | AA ZN-6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 7.0i | . |
| 2 | AA SS-711 | <0.0010 | <0.0010 | 0.03i | 0.50 | 0.90 | 0.02i | 0.40 | 0.03i | 0.03i | <0.0030 | 0.15i | <0.0010 | 0.10i | 0.01i | 6.5i | <0.0030 |
| 2 | ALC-6235-AB | . | . | 0.040 | 0.046 | 0.15 | . | 0.031 | 0.040 | 0.040 | 0.046 | 0.10 | 0.038 | 0.041 | . | 5.45 | . |
| 1 | AL 715/02 | . | . | (0.33) | 0.30 | 0.60 | . | 0.45 | 0.351 | 0.050 | . | 0.20 | . | 0.15 | . | 5.40 | . |
| 2 | ALC-420-AA | . | . | 0.028 | 0.026 | 0.12 | 0.014 | 0.028 | 0.033 | 0.032 | 0.032 | 0.16 | 0.10 | 0.024 | . | 4.70 | . |
| 2 | AA ZN-5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 4.0i | . |
| 1 | AL 744/01 | . | . | 0.023 | 0.051 | 0.50 | . | 0.074 | 0.056 | 0.012 | . | 0.21 | . | 0.028 | . | 2.77 | . |
| 2 | AA ZN-4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 2.6i | . |
| 1 | V 5060-2 | 0.00028 | 0.00023 | 0.189 | 0.203 | 0.615 | 0.0341 | 0.090 | 1.437 | 0.0669 | 0.0536 | 0.347 | 0.0086 | 0.0517 | 0.0179 | 2.04 | 0.270 |
| 1 | AL 743/01 | . | . | 0.012 | 0.10 | 0.15 | . | 0.039 | 0.10 | 0.012 | . | 0.10 | . | 0.016 | . | 1.79 | . |
| 1 | AL 742/01 | . | . | 0.012 | 0.050 | 0.30 | . | 0.065 | 0.053 | 0.011 | . | 0.15 | . | 0.016 | . | 1.29 | . |
| 2 | AA SS-7072 | <0.0005 | <0.0005 | 0.03i | 0.03i | 0.28 | 0.02i | 0.03i | 0.04i | 0.03i | <0.0030 | 0.14i | <0.0010 | 0.03i | 0.01i | 1.1i | <0.0030 |
| 2 | ALC-72S-AV | 0.0007 | 0.0049 | 0.035 | 0.047 | 0.20 | 0.015 | 0.039 | 0.040 | 0.040 | 0.029 | 0.10 | 0.043 | 0.034 | 0.005 | 0.98 | . |
| 2 | AA ZN-2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.60i | . |
| 2 | AA ZN-1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | 0.25i | . |

| # | Number | Ag | As | B | Bi | Cd | Co | Hg | In | Li | Na | P | Sb | Sc | Sr | Units | |
|---|-------------|---------|---------|---------|---------|---------|---------|---------|----|----------|---------|----------|---------|---------|---------|-------|--------------------|
| 2 | AA ZN-7 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA SS-713 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 1 | 58X G40H 7B | . | . | . | . | 0.027 | 0.026 | . | . | (0.0003) | . | . | 0.007 | . | . | c | 50x20 or 40x15 |
| 2 | AA ZN-6 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA SS-711 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | . | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | ALC-6235-AB | . | . | . | 0.048 | . | . | . | . | . | . | . | . | . | . | w | 57 x 25 |
| 1 | AL 715/02 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | ALC-420-AA | . | . | . | 0.034 | . | . | . | . | . | . | . | . | . | . | c | 57 x 25 |
| 2 | AA ZN-5 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | AL 744/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | AA ZN-4 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 1 | V 5060-2 | 0.00202 | . | <0.0005 | . | 0.00127 | 0.00093 | 0.00235 | . | 0.00042 | 0.00060 | . | . | . | <0.0002 | c | 60 x 20 Al: [94.6] |
| 1 | AL 743/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 1 | AL 742/01 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 60 x 25 |
| 2 | AA SS-7072 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0005 | . | <0.0005 | <0.0005 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | c | 64 x 25 |
| 2 | ALC-72S-AV | . | . | . | 0.040 | . | . | . | . | <0.0001 | 0.0022 | (0.0001) | . | . | . | w | 57 x 25 |
| 2 | AA ZN-2 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |
| 2 | AA ZN-1 | . | . | . | . | . | . | . | . | . | . | . | . | . | . | c | 64 x 25 |

CRM Zn Alloy Set

available as SETS ONLY, as grouped

62 mm Ø x 30 mm

| Number | Zn | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | Zr |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| NCS HS49720a-1 | 5.70 | 0.018 | 0.012 | 0.147 | 0.840 | 0.099 | 0.012 | 0.051 | 0.0063 | 0.058 |
| NCS HS49720a-2 | 4.98 | 0.067 | 0.038 | 0.207 | 1.11 | 0.221 | 0.037 | 0.104 | 0.018 | 0.101 |
| NCS HS49720a-3 | 4.66 | 0.125 | 0.087 | 0.292 | 1.40 | 0.402 | 0.068 | 0.186 | 0.036 | 0.151 |
| NCS HS49720a-4 | 3.53 | 0.176 | 0.109 | 0.410 | 1.90 | 0.565 | 0.092 | 0.283 | 0.057 | 0.201 |
| NCS HS49720a-5 | 2.60 | 0.211 | 0.158 | 0.535 | 1.78 | 0.722 | 0.135 | 0.395 | 0.081 | 0.236 |

RM XRF Cut Aluminum Alloys from ARCONIC (formerly Alcoa)

analysis listed in mass % all available individually 25 mm Ø x 6 mm

| Number | Ag | Cr | Cu | Fe | Ga | Li | Mg | Mn | Ni | Pb | Si | Sn | Sr | Ti | V | Zn | Zr |
|------------|---------|---------|-------|--------|--------|---------|-------|-------|---------|---------|-------|---------|---------|--------|---------|-------|---------|
| AA SS-356 | <0.0010 | <0.0050 | 0.12i | 0.35 | 0.02i | <0.0010 | 0.35 | 0.05i | 0.03i | <0.0030 | 7.1i | <0.0030 | 0.02i | 0.12i | 0.01i | 0.10i | <0.0030 |
| AA SS-380 | <0.0010 | <0.0050 | 3.6i | 0.90 | 0.02i | <0.0010 | 0.20i | 0.40 | 0.30 | <0.0030 | 8.9i | <0.0030 | 0.02i | 0.08i | 0.01i | 0.35 | <0.0030 |
| AA SS-383 | <0.0010 | 0.06i | 2.5i | 1.0i | 0.02i | <0.0010 | 0.25 | 0.35 | 0.10i | 0.20i | 11.0 | 0.15i | 0.03i | 0.08i | 0.01i | 2.5i | <0.0030 |
| AA SS-390 | <0.0010 | 0.05i | 4.5i | 0.90 | 0.02i | <0.0010 | 0.60 | 0.25 | 0.10i | 0.08i | 16.7 | 0.08i | <0.0050 | 0.10i | 0.01i | 0.50 | <0.0030 |
| AA SS-1100 | <0.0010 | <0.0050 | 0.15i | 0.50 | 0.02i | <0.0005 | 0.03i | 0.04i | <0.0050 | <0.0030 | 0.18i | <0.0010 | <0.0010 | 0.02i | 0.01i | 0.08i | <0.0030 |
| AA SS-2024 | <0.0010 | 0.06i | 4.6i | 0.35 | 0.02i | <0.0005 | 1.6i | 0.65 | 0.04i | <0.0030 | 0.20i | <0.0010 | <0.0010 | 0.03i | 0.01i | 0.10i | <0.0030 |
| AA SS-2055 | 0.47i | 0.003i | 3.6i | 0.030i | 0.006i | 1.1x | 0.34i | 0.28i | 0.003i | <0.0005 | 0.02i | <0.0005 | <0.0005 | 0.030i | 0.005i | 0.50i | 0.12i |
| AA SS-3004 | <0.0010 | <0.0050 | 0.15i | 0.50 | 0.02i | <0.0005 | 1.1i | 1.2i | <0.0050 | 0.001i | 0.18i | <0.0010 | <0.0010 | 0.02i | 0.01i | 0.05i | <0.0030 |
| AA SS-5052 | <0.0010 | 0.25 | 0.06i | 0.20i | 0.02i | <0.0005 | 2.6i | 0.05i | 0.05i | <0.0030 | 0.15i | <0.0010 | <0.0010 | 0.01i | 0.01i | 0.08i | <0.0030 |
| AA SS-5182 | <0.0010 | 0.03i | 0.05i | 0.20i | 0.02i | <0.0005 | 4.6i | 0.35 | 0.02i | <0.0005 | 0.15i | <0.0010 | <0.0010 | 0.03i | 0.01i | 0.05i | <0.0030 |
| AA SS-6022 | <0.0010 | 0.0298 | 0.070 | 0.126 | 0.0155 | <0.0005 | 0.60 | 0.073 | <0.0050 | <0.0030 | 0.89 | <0.0010 | <0.0010 | 0.0395 | 0.0109 | 0.100 | <0.0030 |
| AA SS-6061 | <0.0010 | 0.23 | 0.30 | 0.35 | 0.02i | <0.0005 | 1.0i | 0.05i | 0.05i | <0.0030 | 0.65 | <0.0010 | <0.0010 | 0.04i | 0.01i | 0.08i | <0.0030 |
| AA SS-6063 | <0.0010 | 0.02i | 0.06i | 0.25 | 0.02i | <0.0005 | 0.65 | 0.02i | 0.02i | <0.0030 | 0.48 | <0.0010 | <0.0010 | 0.03i | 0.01i | 0.05i | <0.0030 |
| AA SS-7050 | <0.0010 | 0.02i | 2.4i | 0.15i | 0.02i | <0.0005 | 2.3i | 0.03i | 0.02i | <0.0030 | 0.08i | <0.0010 | <0.0010 | 0.04i | <0.0050 | 6.2i | 0.12i |
| AA SS-7075 | <0.0010 | 0.22i | 1.6i | 0.25 | 0.02i | <0.0005 | 2.6i | 0.08i | <0.0050 | <0.0030 | 0.16i | <0.0010 | <0.0010 | 0.04i | 0.01i | 5.8i | <0.0030 |

| Number | Ag | Cr | Cu | Fe | Ga | Li | Mg | Mn | Ni | Pb | Si | Sn | Sr | Ti | V | Zn | Zr |
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|
|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|

RM XRF Cut Aluminum Alloys from JAPAN

analysis listed in mass % all available individually cast, 55 mm Ø x 10 mm

| # | Number | Cr | Cu | Fe | Mg | Mn | Ni | P | Pb | Si | Sn | Ti | Zn |
|---|---------|--------|-------|---------|-------|--------|-------|-------|--------|-------|-------|--------|--------|
| 2 | AJ M023 | 0.129 | 1.13 | (0.899) | 1.42 | 0.189 | 1.01 | 0.016 | 0.048 | 23.9 | 0.055 | 0.102 | 0.100 |
| 2 | AJ M024 | 0.129 | 1.13 | (0.902) | 1.38 | 0.189 | 1.01 | 0.016 | 0.048 | 23.9 | 0.055 | 0.102 | 0.100 |
| 2 | AJ M025 | 0.129 | 1.13 | (0.907) | 1.34 | 0.189 | 1.01 | 0.016 | 0.048 | 23.9 | 0.055 | 0.102 | 0.100 |
| 2 | AJ M026 | 0.213 | 1.50 | (0.730) | 0.977 | 0.463 | 1.41 | 0.013 | 0.102 | 20.6 | 0.105 | 0.148 | 0.186 |
| 2 | AJ M027 | 0.213 | 1.50 | (0.755) | 0.953 | 0.463 | 1.41 | 0.013 | 0.102 | 20.6 | 0.105 | 0.148 | 0.186 |
| 3 | AJ M005 | 0.107 | 0.051 | 0.221 | 0.098 | 0.104 | 0.103 | . | . | 13.30 | 0.074 | 0.057 | 0.303 |
| 3 | AJ M004 | 0.047 | 0.151 | 0.726 | 0.047 | 0.058 | 0.053 | . | . | 11.75 | 0.027 | 0.019 | 0.015 |
| 3 | AJ M017 | . | 4.36 | 0.527 | 0.655 | 0.498 | 0.103 | . | . | 10.82 | 0.052 | 0.062 | 0.108 |
| 3 | AJ M011 | 0.114 | 0.310 | 0.717 | 0.612 | 0.158 | 0.480 | . | (0.11) | 10.16 | 0.092 | 0.191 | 0.502 |
| 3 | AJ M022 | 0.052 | 2.00 | 1.53 | 0.188 | 0.212 | 0.104 | . | 0.049 | 10.14 | 0.051 | 0.058 | 0.503 |
| 2 | AJ M003 | 0.0084 | 0.079 | 0.528 | 0.374 | 0.402 | 0.011 | . | . | 9.57 | . | 0.094 | 0.104 |
| 3 | AJ M018 | 0.175 | 3.57 | 0.847 | 0.296 | 0.322 | 0.256 | . | 0.197 | 9.10 | 0.149 | 0.162 | 0.969 |
| 3 | AJ M019 | 0.175 | 3.57 | 0.847 | 0.286 | 0.322 | 0.256 | . | 0.197 | 9.10 | 0.149 | 0.162 | 0.969 |
| 3 | AJ M013 | 0.049 | 2.49 | 0.306 | 0.106 | 0.105 | 0.100 | . | 0.051 | 8.25 | 0.050 | 0.060 | 0.523 |
| 3 | AJ M014 | 0.049 | 2.49 | 0.306 | 0.102 | 0.105 | 0.100 | . | 0.051 | 8.25 | 0.050 | 0.060 | 0.523 |
| 3 | AJ M015 | 0.049 | 2.49 | 0.306 | 0.099 | 0.105 | 0.100 | . | 0.051 | 8.25 | 0.050 | 0.060 | 0.523 |
| 3 | AJ M016 | 0.049 | 2.49 | 0.306 | 0.093 | 0.105 | 0.100 | . | 0.051 | 8.25 | 0.050 | 0.060 | 0.523 |
| 3 | AJ M012 | 0.099 | 3.76 | 0.307 | 0.104 | 0.101 | 0.298 | . | (0.08) | 8.04 | 0.206 | 0.096 | (0.42) |
| 3 | AJ M006 | 0.0007 | 0.049 | 0.308 | 0.310 | 0.051 | . | . | . | 7.65 | . | 0.045 | 0.107 |
| 3 | AJ M007 | 0.0007 | 0.049 | 0.308 | 0.300 | 0.051 | . | . | . | 7.65 | . | 0.055 | 0.107 |
| 3 | AJ M002 | 0.012 | 2.60 | 0.307 | 0.056 | (0.05) | 0.012 | . | 0.014 | 6.92 | 0.010 | (0.02) | 0.806 |
| 3 | AJ M001 | 0.051 | 4.60 | 0.322 | 0.108 | 0.102 | 0.051 | . | . | 1.01 | . | 0.096 | 0.116 |
| 3 | AJ M009 | . | 3.99 | 0.600 | (1.8) | 0.352 | 2.23 | . | 0.011 | 0.596 | 0.016 | 0.186 | 0.144 |
| 3 | AJ M010 | . | 4.30 | 0.252 | 1.18 | 0.490 | 1.96 | . | 0.011 | 0.290 | 0.018 | 0.091 | 0.012 |
| 3 | AJ M008 | . | 3.48 | 0.858 | 1.54 | 0.206 | 1.65 | . | 0.012 | 0.059 | 0.016 | (0.34) | 0.043 |

| # | Number | Cr | Cu | Fe | Mg | Mn | Ni | P | Pb | Si | Sn | Ti | Zn |
|---|--------|----|----|----|----|----|----|---|----|----|----|----|----|
|---|--------|----|----|----|----|----|----|---|----|----|----|----|----|

last of stock

Low Alloy - Major Elements

| # | Number | Unit | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Si | Ti | V | Zn | Cd | Pb | Other |
|---|---------------|-----------------|--------|---------|---------|---------|---------|-----------|-----------|--------|---------|----------|---------|-------|---------|-------------------------|
| 2 | 58A AC8064 | 45 mm Ø x 35 mm | 0.013 | 0.025 | 0.443 | 0.026 | 0.027 | 0.027 | 0.013 | 0.426 | 0.026 | 0.013 | 0.026 | . | . | |
| 1 | 58A ST30140m | 55 mm Ø x 35 mm | . | 0.037 | 0.347 | 0.029 | 0.023 | 0.025 | 0.049 | 0.349 | 0.021 | . | 0.052 | . | . | |
| 1 | 58A ST37030 | 45 mm Ø x 25 mm | . | 0.031 | 0.371 | . | 0.031 | 0.034 | 0.03 | 0.344 | 0.013 | . | 0.067 | . | 0.123 | |
| 1 | 58A BY1101924 | 38 mm Ø x 32 mm | . | 0.033 | 0.35 | . | 0.04 | 0.055 | 0.054 | 0.29 | 0.062 | . | 0.035 | 0.014 | 0.035 | REtot: 0.029, Sn: 0.047 |
| 2 | 58A ZH23011 | 60 mm Ø x 30 mm | 0.013 | 0.057 | 0.351 | 0.094 | . | 0.024 | 0.0052 | 0.233 | 0.036 | 0.0077 | 0.123 | . | . | B: 0.0061 |
| 2 | 58A AC8063 | 45 mm Ø x 35 mm | 0.007 | 0.014 | 0.22 | 0.014 | 0.014 | 0.015 | 0.0073 | 0.21 | 0.013 | 0.0047 | 0.014 | . | . | |
| 1 | 58A ZH2020 | 60 mm Ø x 30 mm | 0.107 | 0.202 | 0.457 | . | 0.396 | 0.314 | (0.0020) | 0.199 | 0.0065 | . | 0.012 | . | . | |
| 1 | 58A ST37020 | 45 mm Ø x 25 mm | . | 0.015 | 0.193 | . | 0.011 | 0.017 | 0.014 | 0.194 | 0.036 | 0.237 | 0.03 | 0.105 | . | Sb: 0.04, Sn: 0.171 |
| 1 | 58A ST30110m | 55 mm Ø x 35 mm | . | 0.01 | 0.14 | 0.016 | 0.0075 | 0.011 | 0.0073 | 0.184 | 0.01 | . | 0.015 | . | . | |
| 2 | 58A AC8062a | 45 mm Ø x 35 mm | 0.0039 | 0.006 | 0.083 | 0.0083 | 0.007 | 0.0077 | 0.0033 | 0.14 | 0.0071 | 0.0021 | 0.0076 | . | . | |
| 1 | 58A BY1101922 | 38 mm Ø x 32mm | . | 0.0093 | 0.166 | . | 0.017 | 0.029 | 0.019 | 0.133 | 0.026 | . | 0.013 | . | . | |
| 2 | 58A ZH23009 | 60 mm Ø x 30 mm | 0.0008 | 0.0050 | 0.126 | 0.014 | 0.0056 | 0.0044 | 0.0029 | 0.107 | 0.0074 | 0.0037 | 0.010 | . | . | B: 0.0010 |
| 1 | 58A ST55170a | 45 mm Ø x 40 mm | . | 0.002 | 0.397 | . | 0.0022 | 0.0022 | . | 0.107 | 0.013 | 0.011 | 0.0076 | . | . | |
| 1 | 58A BY1101921 | 38 mm Ø x 32 mm | . | 0.015 | 0.071 | . | 0.0044 | 0.0077 | 0.0092 | 0.067 | 0.012 | . | 0.0088 | . | . | |
| 2 | 58A ZH23008 | 60 mm Ø x 30 mm | 0.0004 | 0.0036 | 0.049 | 0.0071 | 0.0004 | 0.0008 | 0.0013 | 0.052 | 0.0023 | 0.0023 | 0.0055 | . | . | B: 0.0006 |
| 1 | 58A ST55160a | 45 mm Ø x 40 mm | 0.017 | 0.016 | 0.063 | 0.017 | 0.02 | 0.019 | 0.042 | 0.052 | 0.021 | 0.0018 | 0.017 | . | . | Zr: 0.018 |
| 1 | 58A ST37010 | 45 mm Ø x 25 mm | . | 0.0025 | 0.062 | 0.00024 | 0.0031 | 0.0006 | 0.0004 | 0.051 | 0.0095 | <0.0002 | 0.0016 | . | 0.00013 | Ce: 0.00031, Na: 0.0002 |
| 1 | 58A ST30120m | 55 mm Ø x 35 mm | . | 0.0061 | 0.053 | 0.0051 | 0.002 | 0.0018 | 0.0027 | 0.05 | 0.0012 | . | 0.0039 | . | . | |
| 1 | 58A ST23354 | 55 mm Ø x 35 mm | . | 0.0087 | 0.01 | 0.0094 | 0.0089 | 0.0011 | 0.0019 | 0.043 | 0.0028 | . | 0.01 | . | 0.048 | Bi: 0.539 |
| 1 | 58A ST23353 | 45 mm Ø x 40 mm | 0.0081 | 0.01 | 0.05 | 0.0098 | 0.0012 | 0.01 | 0.012 | 0.036 | 0.013 | 0.0022 | 0.013 | . | . | Zr: 0.014 |
| 3 | 58A AC20156 | 40 mm Ø x 35 mm | . | 0.022 | 0.028 | . | . | . | . | 0.024 | 0.003 | . | 0.0056 | . | . | |
| 1 | 58A ST23357 | 55 mm Ø x 35 mm | . | 0.013 | 0.023 | 0.052 | 0.0017 | 0.015 | 0.013 | 0.019 | 0.018 | . | 0.00083 | . | 0.457 | Bi: 0.036 |
| 1 | 58A ST23356 | 55 mm Ø x 35 mm | . | 0.0074 | 0.015 | 0.039 | 0.0049 | 0.0085 | 0.0059 | 0.012 | 0.0098 | . | 0.0044 | . | 0.338 | Bi: 0.168 |
| 3 | 58A AC20145 | 40 mm Ø x 35 mm | . | 0.016 | 0.013 | . | . | . | . | 0.012 | 0.0024 | . | 0.0043 | . | . | |
| 2 | 58A AC8061 | 45 mm Ø x 35 mm | 0.0011 | 0.0026 | 0.01 | 0.0022 | 0.0023 | 0.0019 | 0.0011 | 0.011 | 0.0022 | (0.0003) | 0.0023 | . | . | |
| 1 | 58A ST30170c | 62 mm Ø x 30 mm | . | 0.0041 | 0.0064 | . | 0.004 | (0.00025) | (0.00040) | 0.0084 | 0.0021 | . | 0.003 | . | . | |
| 1 | 58A ST55150a | 45 mm Ø x 40 mm | 0.001 | 0.0043 | 0.0091 | 0.00038 | 0.0056 | 0.0038 | 0.0037 | 0.0081 | 0.0017 | . | 0.0058 | . | . | Zr: 0.0064 |
| 3 | 58A AC20134 | 40 mm Ø x 35 mm | . | 0.01 | 0.0085 | . | . | . | . | 0.0066 | 0.0021 | . | 0.0033 | . | . | |
| 1 | 58A ST23355 | 55 mm Ø x 35 mm | . | 0.0046 | 0.0097 | 0.029 | 0.0066 | 0.0028 | 0.0088 | 0.0063 | 0.0068 | . | 0.007 | . | 0.241 | Bi: 0.264 |
| 3 | 58A AC20123 | 40 mm Ø x 35 mm | . | 0.0061 | 0.0044 | . | . | . | . | 0.0036 | 0.0012 | . | 0.0025 | . | . | |
| 1 | 58A ST23352 | 55 mm Ø x 35 mm | . | 0.0031 | 0.016 | 0.02 | 0.013 | 0.00018 | 0.00034 | 0.0027 | 0.00026 | . | 0.014 | . | 0.148 | Bi: 0.352 |
| 1 | 58A ST55120a | 45 mm Ø x 40 mm | 0.0011 | 0.0045 | 0.0035 | 0.0031 | 0.00068 | 0.0023 | 0.0022 | 0.0029 | 0.00087 | 0.00076 | 0.0027 | . | . | Zr: 0.0022 |
| 3 | 58A AC20101 | 40 mm Ø x 35 mm | . | 0.00078 | 0.00063 | . | . | . | . | 0.0019 | 0.00071 | . | 0.00067 | . | . | |
| 3 | 58A AC20112 | 40 mm Ø x 35 mm | . | 0.0031 | 0.0014 | . | . | . | . | 0.0011 | 0.0016 | . | 0.0017 | . | . | |
| # | Number | Unit | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Si | Ti | V | Zn | Cd | Pb | Other |

Low Alloy - Minor Elements

| # | Number | Units | B | Ca | Cd | Co | Ga | Li | Mg | Na |
|---|-------------|------------------|--------|-------|---------|---------|--------|---------|-------|--------|
| 1 | 58A ST21150 | ~55 mm Ø x 30 mm | 0.0032 | . | 0.019 | 0.0037 | 0.0097 | 0.039 | 0.106 | . |
| 1 | 58A ST21140 | ~55 mm Ø x 30 mm | 0.0011 | . | 0.00058 | 0.00025 | 0.0093 | 0.00058 | 0.092 | . |
| 1 | 58A ST37610 | 45 mm Ø x 25 mm | . | 0.151 | . | . | . | . | . | 0.0009 |
| 1 | 58A ST37620 | 45 mm Ø x 25 mm | . | 0.161 | . | . | . | . | . | 0.0071 |
| 1 | 58A ST37630 | 45 mm Ø x 25 mm | . | 0.14 | . | . | . | . | . | 0.0005 |
| 1 | 58A ST37640 | 45 mm Ø x 25 mm | . | . | . | . | . | . | . | 0.0011 |

Alloys

| # | Alloy | Number | mmØ x mmH | Bi | Ca | Cr | Cu | Fe | Li | Mg | Mn | Na | Ni | Pb | Si | Sn | Sr | Ti | V | Zn | Zr | Other |
|---|-------|-------------|-----------|-------|---------|--------|--------|-------|-------|--------|--------|----------|--------|---------|-------|---------|----|--------|-------|--------|--------|------------|
| 2 | 380 | 58A AC23008 | 45 x 35 | . | . | . | 2.56 | 2.15 | . | . | 0.065 | . | 0.058 | 0.415 | 9.91 | 0.377 | . | 0.257 | . | 0.53 | . | |
| 2 | 380 | 58A AC23007 | 45 x 35 | . | . | . | 3.05 | 1.68 | . | . | 0.189 | . | 0.189 | 0.283 | 9.08 | 0.299 | . | 0.193 | . | 1.09 | . | |
| 2 | 380 | 58A AC23005 | 45 x 35 | . | . | . | 3.72 | 0.69 | . | . | 0.479 | . | 0.406 | 0.102 | 7.29 | 0.119 | . | 0.075 | . | 2.45 | . | |
| 2 | 380 | 58A AC23004 | 45 x 35 | . | . | . | 4.5 | 0.211 | . | . | 0.606 | . | 0.058 | 0.035 | 6.58 | 0.038 | . | 0.032 | . | 3.18 | . | |
| 1 | 713 | 58A ZB23031 | 50 x 30 | . | . | 0.0014 | 0.578 | 0.736 | . | 0.387 | 0.016 | . | 0.0038 | 0.0015 | 0.247 | . | . | 0.034 | 0.015 | 6.77 | . | P: <0.0020 |
| 1 | 1070 | 58A ZB23011 | 50 x 30 | . | <0.0010 | 0.0007 | 0.0006 | 0.086 | . | 0.0072 | 0.0014 | . | 0.004 | <0.0020 | 0.046 | <0.0020 | . | 0.0097 | 0.016 | 0.0028 | . | Ga: 0.0095 |
| 1 | 1235 | 58A ST64350 | 45 x 25 | . | . | . | 0.042 | 0.42 | . | 0.036 | 0.039 | . | 0.037 | . | 0.108 | . | . | 0.024 | 0.017 | 0.045 | . | |
| 1 | 1420 | 58A ST54350 | ~55 x 30 | . | . | . | 0.308 | 0.293 | 1.81 | 2.61 | 0.302 | 0.0023 | 0.114 | . | 0.265 | . | . | 0.097 | . | 0.15 | 0.194 | |
| 1 | 1420 | 58A ST54340 | ~55 x 30 | . | . | . | 0.198 | 0.273 | 2.81 | 3.44 | 0.217 | 0.0061 | 0.077 | . | 0.199 | . | . | 0.068 | . | 0.229 | 0.137 | |
| 1 | 1420 | 58A ST54330 | ~55 x 30 | . | . | . | 0.054 | 0.106 | 1.41 | 3.78 | 0.146 | (0.0027) | 0.032 | . | 0.152 | . | . | 0.034 | . | 0.056 | 0.056 | |
| 1 | 1420 | 58A ST54320 | ~55 x 30 | . | . | . | 0.092 | 0.138 | 2.21 | 4.99 | 0.077 | 0.0036 | 0.049 | . | 0.097 | . | . | 0.053 | . | 0.084 | 0.095 | |
| 1 | 1420 | 58A ST54310 | ~55 x 30 | . | . | . | 0.0078 | 0.074 | 0.766 | 5.84 | 0.0086 | 0.00043 | 0.0015 | . | 0.021 | . | . | 0.006 | . | 0.0071 | 0.0066 | |
| 1 | 2011 | 58A ST45210 | ~55 x 30 | 0.089 | . | . | 3.87 | 0.752 | . | 0.095 | 0.0092 | . | 0.079 | 0.65 | 0.541 | . | . | 0.077 | . | 0.471 | . | |
| 1 | 2011 | 58A ST45220 | ~55 x 30 | 0.649 | . | . | 4.8 | 0.588 | . | 0.0093 | 0.024 | . | 0.045 | 0.41 | 0.45 | . | . | 0.05 | . | 0.368 | . | |
| 1 | 2011 | 58A ST45230 | ~55 x 30 | 0.385 | . | . | 5.36 | 0.449 | . | 0.022 | 0.045 | . | 0.038 | 0.407 | 0.332 | . | . | 0.035 | . | 0.252 | . | |
| 1 | 2011 | 58A ST45240 | ~55 x 30 | 0.235 | . | . | 6.73 | 0.324 | . | 0.042 | 0.06 | . | 0.021 | 0.24 | 0.243 | . | . | 0.021 | . | 0.142 | . | |
| 1 | 2011 | 58A ST45250 | ~55 x 30 | 0.869 | . | . | 6.16 | 0.176 | . | 0.058 | 0.067 | . | 0.0072 | 0.116 | 0.144 | . | . | 0.0095 | . | 0.051 | . | |
| 1 | 2195 | 58A ST25010 | 45 x 25 | . | . | . | 2.45 | . | 1.76 | 0.584 | . | . | . | . | . | . | . | 0.104 | . | . | 0.045 | Ag: 0.224 |
| 1 | 2195 | 58A ST25040 | 45 x 25 | . | . | . | 4.57 | . | 1.23 | 0.274 | . | . | . | . | . | . | . | 0.052 | . | . | 0.125 | Ag: 0.455 |
| 1 | 2195 | 58A ST25050 | 45 x 25 | . | . | . | 5.43 | . | 0.955 | 0.19 | . | . | . | . | . | . | . | 0.027 | . | . | 0.142 | Ag: 0.591 |

Alloys

| # | Alloy | Number | mmØ x mmH | Ca | Cd | Cr | Cu | Fe | Li | Mg | Mn | Na | Ni | Pb | Si | Sn | Sr | Ti | V | Zn | Zr | Other |
|---|-------|---------------|----------------|----|---------|----------|--------|-------|----|--------|--------|----------|---------|----------|-------|---------|----|---------|-------|---------|--------|-----------|
| 3 | 2218 | 58A AC3181 | 40 x 35 | . | . | 0.022 | 3.44 | 1.3 | . | 0.73 | 0.051 | . | 2.55 | . | 0.92 | . | . | . | . | 0.056 | . | . |
| 3 | 2218 | 58A AC3182 | 40 x 35 | . | . | 0.048 | 2.72 | 0.85 | . | 1.12 | 0.092 | . | 1.98 | . | 0.79 | . | . | . | . | 0.14 | . | . |
| 3 | 2218 | 58A AC3183 | 40 x 35 | . | . | 0.073 | 3.8 | 0.64 | . | 1.36 | 0.14 | . | 1.96 | . | 0.59 | . | . | . | . | 0.2 | . | . |
| 3 | 2218 | 58A AC3184 | 40 x 35 | . | . | 0.11 | 4.43 | 0.54 | . | 1.72 | 0.19 | . | 1.56 | . | 0.42 | . | . | . | . | 0.26 | . | . |
| 3 | 2218 | 58A AC3185 | 40 x 35 | . | . | 0.13 | 4.96 | 0.39 | . | 2.11 | 0.25 | . | 1.1 | . | 0.34 | . | . | . | . | 0.33 | . | . |
| 1 | 2219 | 58A ST32210 | -55 x 30 | . | . | . | 4.76 | 0.455 | . | 0.002 | 0.476 | . | 0.0038 | . | 0.358 | . | . | 0.0037 | 0.027 | (0.007) | 0.038 | . |
| 1 | 2219 | 58A ST32220 | -55 x 30 | . | . | . | 5.53 | 0.38 | . | 0.021 | 0.387 | . | 0.017 | . | 0.257 | . | . | 0.071 | 0.061 | 0.049 | 0.103 | . |
| 1 | 2219 | 58A ST32230 | -55 x 30 | . | . | . | 6.21 | 0.302 | . | 0.04 | 0.318 | . | 0.041 | . | 0.198 | . | . | 0.16 | 0.175 | 0.105 | 0.157 | . |
| 1 | 2219 | 58A ST32240 | -55 x 30 | . | . | . | 6.64 | 0.199 | . | 0.062 | 0.161 | . | 0.069 | . | 0.159 | . | . | 0.123 | 0.116 | 0.157 | 0.236 | . |
| 1 | 2219 | 58A ST32250 | -55 x 30 | . | . | . | 6.97 | 0.105 | . | 0.126 | 0.09 | . | 0.09 | . | 0.106 | . | . | (0.154) | 0.17 | 0.189 | 0.197 | . |
| 1 | 2524 | 58A ST49430 | -55 x 30 | . | . | 0.034 | 4.2 | 0.052 | . | 1.34 | 0.589 | . | 0.032 | . | 0.036 | . | . | 0.086 | . | 0.115 | . | . |
| 1 | 3003 | 58A CP1583961 | 45 x 35 | . | . | 0.17 | 0.032 | 0.056 | . | 0.253 | 1.99 | . | 0.122 | . | 0.058 | . | . | 0.083 | . | 0.109 | . | . |
| 1 | 3003 | 58A CP1583962 | 45 x 35 | . | . | 0.12 | 0.279 | 0.282 | . | 0.522 | 1.68 | . | 0.108 | . | 0.101 | . | . | 0.054 | . | 0.284 | . | . |
| 1 | 3003 | 58A CP1583963 | 45 x 35 | . | . | 0.249 | 0.202 | 0.155 | . | 0.132 | 0.582 | . | 0.076 | . | 0.393 | . | . | 0.111 | . | 0.486 | . | . |
| 1 | 3003 | 58A CP1583964 | 45 x 35 | . | . | 0.049 | 0.095 | 0.473 | . | 0.061 | 1.2 | . | 0.054 | . | 0.253 | . | . | 0.034 | . | 0.052 | . | . |
| 1 | 3003 | 58A CP1583965 | 45 x 35 | . | . | 0.026 | 0.428 | 0.858 | . | 0.013 | 0.257 | . | 0.02 | . | 0.723 | . | . | 0.0136 | . | 0.035 | . | . |
| 1 | 3003 | 58A NK23007 | 50 x 20 | . | . | . | 0.071 | 0.494 | . | 0.0044 | 1.11 | . | 0.0046 | . | 0.099 | . | . | 0.026 | . | 0.0022 | . | . |
| 1 | 3003 | 58A ZB23008 | 50 x 30 | . | . | . | 0.099 | 0.379 | . | 0.013 | 1.06 | . | 0.0034 | . | 0.136 | . | . | 0.0097 | . | 0.0047 | . | . |
| 1 | 3003 | 58A ZB23009 | 50 x 30 | . | . | . | 0.158 | 0.384 | . | 0.013 | 1.07 | . | 0.0034 | . | 0.135 | . | . | 0.012 | . | 0.0069 | . | . |
| 1 | 3003 | 58A ZB23007 | 50 x 30 | . | . | . | 0.109 | 0.38 | . | 0.018 | 1.07 | . | 0.0036 | <0.0010 | 0.128 | <0.0010 | . | 0.016 | 0.014 | 0.004 | . | . |
| 1 | 3003 | 58A ZB23040 | 50 x 30 | . | . | 0.0022 | 0.09 | 0.396 | . | 0.0046 | 1.08 | . | 0.0055 | . | 0.079 | . | . | 0.036 | 0.025 | 0.0033 | . | . |
| 1 | 3003z | 58A ST52110 | -55 x 30 | . | . | . | 0.235 | 0.151 | . | 0.032 | 0.976 | . | 0.027 | . | 1.2 | . | . | 0.11 | . | 2 | . | . |
| 1 | 3003z | 58A ST52120 | -55 x 30 | . | . | . | 0.176 | 0.376 | . | 0.042 | 1.27 | . | 0.05 | . | 0.957 | . | . | 0.09 | . | 1.83 | . | . |
| 1 | 3003z | 58A ST52130 | -55 x 30 | . | . | . | 0.119 | 0.552 | . | 0.058 | 1.59 | . | 0.076 | . | 0.775 | . | . | 0.074 | . | 1.48 | . | . |
| 1 | 3003z | 58A ST52140 | -55 x 30 | . | . | . | 0.074 | 0.687 | . | 0.073 | 1.9 | . | 0.102 | . | 0.548 | . | . | 0.054 | . | 1.2 | . | . |
| 1 | 3003z | 58A ST52150 | -55 x 30 | . | . | . | 0.026 | 0.912 | . | 0.1 | 2.29 | . | 0.123 | . | 0.332 | . | . | 0.027 | . | 0.851 | . | . |
| 3 | 3004 | 58A AC4631 | 50 x 30 | . | . | 0.011 | 0.02 | 0.099 | . | 1.51 | 1.77 | . | 0.0048 | . | 0.065 | . | . | 0.206 | . | 0.011 | . | . |
| 3 | 3004 | 58A AC4632 | 50 x 30 | . | . | 0.051 | 0.102 | 0.299 | . | 1.01 | 1.51 | . | 0.012 | . | 0.125 | . | . | 0.156 | . | 0.084 | . | . |
| 3 | 3004 | 58A AC4633 | 50 x 30 | . | . | 0.101 | 0.202 | 0.503 | . | 0.584 | 1.18 | . | 0.052 | . | 0.311 | . | . | 0.107 | . | 0.159 | . | . |
| 3 | 3004 | 58A AC4634 | 50 x 30 | . | . | 0.148 | 0.31 | 0.695 | . | 0.323 | 0.946 | . | 0.101 | . | 0.654 | . | . | 0.048 | . | 0.247 | . | . |
| 3 | 3004 | 58A AC4635 | 50 x 30 | . | . | 0.198 | 0.424 | 0.898 | . | 0.093 | 0.719 | . | 0.148 | . | 0.946 | . | . | 0.01 | . | 0.348 | . | . |
| 1 | 3104 | 58A ST42010 | -55 x 30 | . | 0.00017 | . | 0.03 | 0.847 | . | 1.39 | 0.687 | (0.0012) | 0.0041 | 0.0085 | 0.658 | . | . | 0.039 | 0.102 | 0.052 | . | Ga: 0.02 |
| 1 | 3104 | 58A ST42020 | -55 x 30 | . | 0.0028 | . | 0.111 | 0.664 | . | 1.19 | 0.795 | 0.00026 | 0.018 | 0.016 | 0.488 | . | . | 0.105 | 0.068 | 0.109 | . | Ga: 0.034 |
| 1 | 3104 | 58A ST42040 | -55 x 30 | . | 0.0044 | . | 0.38 | 0.332 | . | 0.869 | 1.06 | 0.0013 | 0.071 | 0.0051 | 0.342 | . | . | 0.156 | 0.033 | 0.271 | . | Ga: 0.086 |
| 1 | 3104 | 58A ST42050 | -55 x 30 | . | 0.0058 | . | 0.298 | 0.209 | . | 0.712 | 1.18 | (0.0016) | 0.086 | 0.0016 | 0.056 | . | . | 0.201 | 0.018 | 0.33 | . | Ga: 0.096 |
| 1 | 3104 | 58A ST64040X | -55 x 30 | . | . | . | 0.087 | 0.317 | . | 1.57 | 0.08 | . | (0.048) | . | 9.57 | . | . | (0.046) | . | 0.106 | . | . |
| 1 | 5052 | 58A ST13240b | -55 x 30 | . | . | 0.312 | 0.2 | 0.667 | . | 1.38 | 0.682 | (0.0010) | 0.087 | . | 0.79 | . | . | 0.196 | . | 0.225 | . | . |
| 1 | 5052 | 58A ST13260c | -55 x 30 | . | . | 0.349 | 0.214 | 0.718 | . | 0.624 | 0.786 | . | 0.15 | . | 0.885 | . | . | 0.214 | . | 0.3 | . | . |
| 2 | 5052 | 58A ST64520 | -55 x 30 | . | 0.0024 | 0.178 | 0.032 | 0.316 | . | 2.85 | 0.025 | . | . | (0.0021) | 0.075 | . | . | (0.016) | . | 0.022 | . | . |
| 1 | 5083 | 58A ZB23052 | 50 x 30 | . | . | 0.135 | 0.0009 | 0.086 | . | 4.22 | 0.617 | . | 0.003 | 0.0022 | 0.044 | . | . | 0.018 | 0.024 | 0.0022 | . | . |
| 1 | 5182 | 58A ST39110 | -55 x 30 | . | 0.00011 | 0.01 | 0.019 | 0.091 | . | 5.94 | 0.092 | 0.0002 | 0.0071 | 0.0011 | 0.038 | . | . | 0.0111 | . | 0.329 | . | . |
| 1 | 5182 | 58A ST39120 | -55 x 30 | . | 0.0068 | 0.11 | 0.168 | 0.238 | . | 5.16 | 0.478 | 0.00071 | 0.022 | 0.0075 | 0.086 | . | . | 0.129 | . | 0.258 | . | . |
| 1 | 5182 | 58A ST39140 | -55 x 30 | . | 0.0087 | 0.174 | 0.105 | 0.397 | . | 3.76 | 0.22 | 0.001 | 0.067 | 0.015 | 0.214 | . | . | 0.175 | . | 0.105 | . | . |
| 1 | 5182 | 58A ST39150 | -55 x 30 | . | 0.019 | 0.222 | 0.209 | 0.471 | . | 2.96 | 0.601 | 0.00039 | 0.107 | 0.023 | 0.296 | . | . | 0.235 | . | 0.05 | . | . |
| 1 | 5182 | 58A ST39160 | -55 x 30 | . | 0.0011 | 0.041 | 0.056 | 0.284 | . | 4.25 | 0.342 | 0.00016 | 0.022 | 0.0034 | 0.116 | . | . | 0.041 | . | 0.055 | . | . |
| 2 | 5454 | 58A AC5711 | 50 x 30 | . | . | 0.348 | 0.203 | 0.107 | . | 2.03 | 1.14 | . | . | . | 0.513 | . | . | 0.231 | . | 0.302 | . | . |
| 2 | 5454 | 58A AC5712 | 50 x 30 | . | . | 0.209 | 0.15 | 0.204 | . | 2.56 | 0.9 | . | . | . | 0.42 | . | . | 0.16 | . | 0.19 | . | . |
| 2 | 5454 | 58A AC5713 | 50 x 30 | . | . | 0.11 | 0.108 | 0.293 | . | 3.04 | 0.68 | . | . | . | 0.33 | . | . | 0.105 | . | 0.13 | . | . |
| 2 | 5454 | 58A AC5714 | 50 x 30 | . | . | 0.036 | 0.049 | 0.38 | . | 3.49 | 0.446 | . | . | . | 0.204 | . | . | 0.05 | . | 0.061 | . | . |
| 2 | 5454 | 58A AC5715 | 50 x 30 | . | . | (0.0024) | 0.01 | 0.482 | . | 4.04 | 0.203 | . | . | . | 0.101 | . | . | 0.01 | . | 0.018 | . | . |
| 1 | 6005 | 58A NK23006 | 60 x 20 | . | . | 0.0019 | 0.0023 | 0.108 | . | 0.512 | 0.002 | . | 0.0026 | . | 0.62 | . | . | 0.014 | 0.024 | 0.0018 | . | Ga: 0.013 |
| 1 | 6005 | 58A ST15210a | -55 x 30 | . | . | 0.36 | 0.093 | 0.122 | . | 0.752 | 0.09 | . | 0.0092 | . | 0.353 | . | . | 0.043 | . | 0.093 | . | . |
| 1 | 6005 | 58A ST15220b | -55 x 30 | . | . | 0.282 | 0.205 | 0.229 | . | 0.589 | 0.212 | . | 0.037 | . | 0.565 | . | . | 0.080 | . | 0.135 | . | . |
| 1 | 6005 | 58A ST15240a | -55 x 30 | . | . | 0.138 | 0.418 | 0.425 | . | 0.397 | 0.416 | . | 0.089 | . | 0.791 | . | . | 0.13 | . | 0.229 | . | . |
| 1 | 6005 | 58A ST15250a | -55 x 30 | . | . | 0.064 | 0.514 | 0.528 | . | 0.324 | 0.545 | . | 0.14 | . | 0.98 | . | . | 0.175 | . | 0.288 | . | . |
| 1 | 6005 | 58A ST23404 | 62 x 30 | . | . | 0.195 | 0.326 | 0.375 | . | 0.615 | 0.334 | . | 0.06 | . | 0.689 | . | . | 0.11 | . | 0.181 | . | . |
| 1 | 6005 | 58A ZB23048 | 50 x 30 | . | . | 0.0012 | 0.0029 | 0.229 | . | 0.501 | 0.0033 | . | 0.0027 | 0.0015 | 0.66 | . | . | 0.028 | 0.022 | 0.0035 | . | P: 0.0015 |
| 2 | 6061 | 58A AC23027 | 40 x 35 | . | . | . | 0.49 | 0.106 | . | 1.37 | 0.0077 | . | . | . | 0.209 | . | . | 0.0091 | . | 0.31 | . | . |
| 2 | 6061 | 58A AC23028 | 40 x 35 | . | . | 0.283 | 0.398 | 0.307 | . | 1.186 | 0.053 | . | . | . | 0.398 | . | . | 0.052 | . | 0.201 | . | . |
| 2 | 6061 | 58A AC23029 | 40 x 35 | . | . | 0.179 | 0.31 | 0.507 | . | 1.083 | 0.106 | . | . | . | 0.595 | . | . | 0.097 | . | 0.125 | . | . |
| 2 | 6061 | 58A AC23030 | 40 x 35 | . | . | 0.09 | 0.2 | 0.69 | . | 0.798 | 0.149 | . | . | . | 0.778 | . | . | 0.155 | . | 0.06 | . | . |
| 2 | 6061 | 58A AC23031 | 40 x 35 | . | . | 0.011 | 0.109 | 0.895 | . | 0.613 | 0.203 | . | . | . | 0.973 | . | . | 0.214 | . | 0.01 | . | . |
| 1 | 6061 | 58A CQ23003 | -45-62 x~20-40 | . | . | 0.0024 | 0.22 | 0.168 | . | 0.85 | 0.0054 | . | . | . | 0.53 | . | . | 0.0083 | . | 0.0045 | . | . |
| 1 | 6061 | 58A MS23001 | 40 x 40 | . | . | 0.146 | 0.305 | 0.09 | . | 1.09 | 0.01 | . | . | . | 0.626 | . | . | 0.019 | . | 0.0033 | . | . |
| 1 | 6061 | 58A NK23005 | 60 x 20 | . | . | 0.058 | 0.266 | 0.125 | . | 0.98 | 0.0032 | . | 0.0033 | . | 0.61 | . | . | 0.0088 | 0.022 | 0.0024 | . | Ga: 0.012 |
| 1 | 6061 | 58A ZB23004 | 50 x 30 | . | . | 0.07 | 0.375 | 0.297 | . | 1.09 | 0.175 | . | 0.0055 | . | 0.6 | . | . | 0.019 | . | 0.042 | . | . |
| 1 | 6061 | 58A ZB23043 | 50 x 30 | . | . | 0.161 | 0.226 | 0.109 | . | 0.934 | 0.0041 | . | 0.0063 | 0.0017 | 0.605 | . | . | 0.045 | 0.027 | 0.011 | 0.0012 | . |
| 1 | 6061 | 58A ZB23054 | 50 x 30 | . | . | 0.257 | 0.29 | 0.546 | . | 1.0 | 0.094 | . | 0.0038 | . | 0.64 | . | . | 0.022 | 0.014 | 0.017 | . | . |

Alloys

| # | Alloy | Number | mmØ x mmH | Ca | Cd | Cr | Cu | Fe | Li | Mg | Mn | Na | Ni | Pb | Si | Sn | Sr | Ti | V | Zn | Zr | Other | |
|---|-------|--------------|----------------|---------|----|---------|--------|-------|----|-------|--------|-----------|---------|--------|-------|----|----|--------|-------|--------|-------|------------|---|
| 2 | 6063 | 58A AC6911 | 50 x 30 | . | . | 0.15 | 0.188 | 0.045 | . | 1.01 | 0.01 | . | . | . | 0.102 | . | . | 0.153 | . | 0.01 | . | . | |
| 2 | 6063 | 58A AC6922 | 50 x 30 | . | . | 0.101 | 0.149 | 0.15 | . | 0.817 | 0.051 | . | . | . | 0.273 | . | . | 0.112 | . | 0.047 | . | . | |
| 2 | 6063 | 58A AC6944 | 50 x 30 | . | . | 0.01 | 0.053 | 0.352 | . | 0.39 | 0.151 | . | . | . | 0.569 | . | . | 0.0098 | . | 0.144 | . | . | |
| 2 | 6063 | 58A AC6955 | 50 x 30 | . | . | 0.0047 | 0.016 | 0.459 | . | 0.219 | 0.207 | . | . | . | 0.751 | . | . | 0.0042 | . | 0.201 | . | . | |
| 1 | 6063 | 58A NK23004 | 60 x 20 | . | . | 0.0021 | 0.0037 | 0.117 | . | 0.568 | 0.0024 | . | 0.0035 | . | 0.45 | . | . | 0.0088 | 0.018 | 0.0027 | . | Ga: 0.013 | |
| 1 | 6063 | 58A SD23001 | 40 x 30 | . | . | 0.049 | 0.101 | 0.167 | . | 0.562 | 0.095 | . | 0.0009 | . | 0.507 | . | . | 0.025 | . | 0.023 | . | . | |
| 1 | 6063 | 58A SD23002 | 40 x 30 | . | . | 0.111 | 0.197 | 0.358 | . | 0.89 | 0.14 | . | 0.004 | . | 0.189 | . | . | 0.081 | . | 0.102 | . | . | |
| 1 | 6063 | 58A SD23003 | 40 x 30 | . | . | 0.14 | 0.026 | 0.492 | . | 1.14 | 0.04 | . | 0.001 | . | 0.102 | . | . | 0.0083 | . | 0.195 | . | . | |
| 1 | 6063 | 58A SD23004 | 40 x 30 | . | . | 0.018 | 0.052 | 0.11 | . | 0.095 | 0.386 | . | 0.0025 | . | 0.996 | . | . | 0.04 | . | 0.052 | . | . | |
| 1 | 6063 | 58A SD23005 | 40 x 30 | . | . | 0.091 | 0.14 | 0.066 | . | 0.38 | 0.238 | . | 0.00098 | . | 0.675 | . | . | 0.198 | . | 0.134 | . | . | |
| 1 | 6063 | 58A ZB23005 | 50 x 30 | . | . | <0.0010 | 0.0025 | 0.135 | . | 0.519 | 0.0036 | . | 0.0017 | . | 0.39 | . | . | 0.016 | . | 0.0035 | . | . | |
| 1 | 6063A | 58A CQ23001 | ~45-62 x~20-40 | . | . | 0.0083 | 0.084 | 0.339 | . | 0.6 | 0.041 | . | . | . | 0.488 | . | . | 0.012 | . | 0.108 | . | . | |
| 1 | 6063A | 58A CQ23002 | ~45-62 x~20-40 | . | . | 0.0023 | 0.011 | 0.148 | . | 0.607 | 0.0042 | . | . | . | 0.407 | . | . | 0.0084 | . | 0.0031 | . | . | |
| 1 | 6063B | 58A ZB23044 | 50 x 30 | . | . | 0.0012 | 0.0057 | 0.082 | . | 0.599 | 0.0016 | . | 0.0044 | 0.0014 | 0.509 | . | . | 0.011 | 0.025 | 0.0026 | . | P: 0.0018 | |
| 1 | 6063B | 58A ZB23046 | 50 x 30 | . | . | 0.0012 | 0.0057 | 0.082 | . | 0.599 | 0.0016 | . | 0.0044 | 0.0014 | 0.509 | . | . | 0.016 | 0.025 | 0.0026 | . | P: 0.0018 | |
| 1 | 6082 | 58A MS23004 | 28 x 30 | . | . | 0.015 | 0.084 | 0.2 | . | 0.95 | 0.51 | . | 0.01 | . | 0.84 | . | . | 0.011 | 0.014 | 0.066 | . | . | |
| 1 | 6082 | 58A NK23003 | 60 x 20 | . | . | 0.126 | 0.046 | 0.126 | . | 0.881 | 0.479 | . | 0.005 | . | 0.94 | . | . | 0.0086 | 0.023 | 0.0018 | . | Ga: 0.012 | |
| 1 | 6082 | 58A ZB23050 | 50 x 30 | . | . | 0.0013 | 0.0033 | 0.141 | . | 0.886 | 0.584 | . | 0.006 | 0.0023 | 0.856 | . | . | 0.025 | 0.026 | 0.035 | . | . | |
| 1 | 6082 | 58A ZB23051 | 50 x 30 | . | . | 0.0012 | 0.0027 | 0.093 | . | 0.933 | 0.545 | . | 0.0058 | 0.0023 | 0.876 | . | . | 0.016 | 0.026 | 0.0028 | . | . | |
| 1 | 7005 | 58A ST14150a | ~55 x 30 | . | . | 0.211 | 0.158 | 0.535 | . | 1.78 | 0.719 | . | 0.135 | . | 0.395 | . | . | 0.081 | . | 2.6 | 0.236 | . | . |
| 1 | 7005 | 58A ST14140a | ~55 x 30 | . | . | 0.176 | 0.109 | 0.41 | . | 1.9 | 0.565 | . | 0.092 | . | 0.283 | . | . | 0.057 | . | 3.53 | 0.201 | . | . |
| 1 | 7005 | 58A ST14130a | ~55 x 30 | . | . | 0.125 | 0.087 | 0.292 | . | 1.4 | 0.402 | . | 0.068 | . | 0.186 | . | . | 0.036 | . | 4.66 | 0.151 | . | . |
| 1 | 7005 | 58A ST14120a | ~55 x 30 | . | . | 0.067 | 0.038 | 0.207 | . | 1.11 | 0.221 | . | 0.037 | . | 0.104 | . | . | 0.018 | . | 4.98 | 0.101 | . | . |
| 1 | 7005 | 58A ST14110a | ~55 x 30 | . | . | 0.018 | 0.012 | 0.147 | . | 0.84 | 0.099 | . | 0.012 | . | 0.051 | . | . | 0.0063 | . | 5.7 | 0.058 | . | . |
| 1 | 7050 | 58A ST23391 | 55 x 35 | . | . | 0.019 | 2.14 | 0.099 | . | 2.16 | 0.024 | 0.0004 | 0.02 | . | 0.031 | . | . | 0.03 | . | 6.17 | 0.106 | Be: 0.0006 | |
| 1 | 7050 | 58A ST43110 | ~55 x 30 | 0.00048 | . | 0.0026 | 1.83 | 0.283 | . | 3.17 | 0.043 | 0.0007 | 0.0043 | . | 0.147 | . | . | 0.014 | . | 7.24 | 0.019 | . | . |
| 1 | 7050 | 58A ST43120 | ~55 x 30 | 0.0023 | . | 0.036 | 2.17 | 0.239 | . | 2.75 | 0.11 | 0.0027 | 0.037 | . | 0.13 | . | . | 0.05 | . | 6.42 | 0.092 | . | . |
| 1 | 7050 | 58A ST43130 | ~55 x 30 | 0.00023 | . | 0.059 | 2.95 | 0.184 | . | 2.11 | 0.147 | (0.00007) | 0.062 | . | 0.082 | . | . | 0.086 | . | 5.35 | 0.162 | . | . |
| 1 | 7050 | 58A ST43140 | ~55 x 30 | 0.001 | . | 0.101 | 3.48 | 0.041 | . | 1.88 | 0.207 | 0.00014 | 0.104 | . | 0.019 | . | . | 0.134 | . | 4.6 | 0.198 | . | . |
| 1 | 7050 | 58A ST43150 | ~55 x 30 | 0.0012 | . | 0.13 | 2.43 | 0.113 | . | 1.4 | 0.254 | 0.0011 | 0.133 | . | 0.055 | . | . | 0.164 | . | 3.95 | 0.207 | . | . |
| 1 | 7075 | 58A BY23024 | 55 x 40 | . | . | 0.242 | 1.34 | 0.432 | . | 2.52 | 0.196 | . | 0.053 | . | 0.28 | . | . | 0.112 | . | 5.53 | . | . | . |
| 1 | 7085 | 58A ST49410 | ~55 x 30 | . | . | . | 1.62 | 0.068 | . | 1.39 | 0.034 | . | 0.031 | . | 0.03 | . | . | 0.035 | . | 7.26 | 0.117 | . | . |
| 1 | 7475 | 58A ST49420 | ~55 x 30 | . | . | 0.219 | 1.62 | 0.089 | . | 2.26 | 0.044 | . | 0.038 | . | 0.073 | . | . | 0.036 | . | 5.51 | . | . | . |
| # | Alloy | Number | mmØ x mmH | Ca | Cd | Cr | Cu | Fe | Li | Mg | Mn | Na | Ni | Pb | Si | Sn | Sr | Ti | V | Zn | Zr | Other | |

Cu Alloys

| # | Number | Unit | Cr | <u>Cu</u> | Fe | Mg | Mn | Ni | Si | Ti | Zn | B | Be | Cd | V | Zr | Other | | |
|---|---------------|------------|-------|-----------|-------|-------|-------|-------|-------|---------|-------|---------|----|-------|-------|-------|--------|----------|-----------|
| 1 | 58A BY2132935 | D 42 x 32 | 0.12 | 5.82 | 0.093 | 0.101 | 0.078 | 0.237 | 0.102 | 0.111 | 0.105 | . | . | . | . | . | . | | |
| 1 | 58A ST23377 | D 55 x 30 | 0.196 | 5.43 | 0.213 | 0.126 | 0.239 | 0.089 | 0.252 | 0.081 | 0.126 | . | . | . | . | 0.05 | . | | |
| 1 | 58A SY23007 | D 50 x 30 | . | 5.09 | 0.178 | . | 0.356 | . | . | 0.212 | . | . | . | 0.023 | . | 0.181 | 0.159 | 0.169 | no center |
| 1 | 58A ST16360 | D -55 x 30 | . | 4.97 | 0.114 | . | . | . | 0.089 | (0.471) | . | (0.070) | . | . | . | 0.018 | . | . | . |
| 1 | 58A ST16370a | D -55 x 30 | . | 4.93 | 0.083 | 0.04 | 0.408 | . | 0.058 | 0.311 | 0.122 | 0.056 | . | . | 0.169 | 0.118 | 0.11 | . | . |
| 1 | 58A ST23002 | D -55 x 30 | . | 4.62 | 0.164 | 0.037 | 0.352 | . | 0.077 | 0.273 | 0.127 | (0.025) | . | . | 0.144 | 0.133 | 0.13 | . | . |
| 1 | 58A ST16390a | D -55 x 30 | . | 4.22 | 0.141 | 0.045 | 0.197 | . | 0.072 | 0.415 | 0.173 | 0.056 | . | . | 0.17 | 0.076 | 0.061 | . | . |
| 1 | 58A ST16310a | D -55 x 30 | . | 3.87 | 0.039 | 0.15 | 0.07 | . | 0.02 | 0.65 | 0.352 | 0.049 | . | . | 0.244 | 0.031 | 0.0094 | . | . |
| 1 | 58A ST57980 | D 45 x 40 | 0.029 | 1.46 | 0.094 | 0.291 | 0.082 | . | 0.136 | 0.0026 | 0.118 | . | . | . | . | . | 0.088 | Li: 2.48 | . |
| 1 | 58A ST57970 | D 45 x 40 | 0.021 | 1.22 | 0.112 | 0.193 | 0.032 | . | 0.118 | 0.01 | 0.107 | . | . | . | . | . | 0.082 | Li: 2.12 | . |
| 1 | 58A BY3166933 | D 42 x 32 | 0.333 | 0.74 | 0.166 | 0.285 | 0.287 | 0.117 | 0.19 | 0.217 | 0.314 | . | . | . | . | . | . | . | . |

| # | Number | Unit | Cr | <u>Cu</u> | Fe | Mg | Mn | Ni | Si | Ti | Zn | B | Be | Cd | V | Zr | Other | | |
|---|---------------|-------------|--------|-----------|-------|-------|-------|-------|----------|-------|---------|-------|----|----|--------|--------|----------|------------|-----------|
| 1 | 58A AC23052 | D 45 x 35 | 0.28 | 5.88 | 1.47 | 1.18 | 0.063 | 0.061 | 0.31 | 14.2 | 0.018 | 1.85 | . | . | 0.5 | . | . | | |
| 1 | 58A ZB23024 | D 60 x 30 | 0.0059 | 5.05 | 1.22 | 1.64 | 0.064 | 0.509 | 0.219 | 1.26 | 0.101 | 1.57 | . | . | 0.015 | 0.104 | 0.093 | Ga: 0.069 | |
| 1 | 58A ST36160e | D -55 x 30 | . | 4.91 | 1.44 | 1.46 | 0.08 | 0.033 | 0.143 | 0.845 | 0.185 | 1.26 | . | . | 0.118 | 0.0005 | . | . | |
| 3 | 58A AC16104 | D 40 x 35 | . | 4.87 | 0.68 | 0.58 | 0.48 | 0.34 | 0.071 | 6.4 | . | 0.5 | . | . | . | . | . | . | |
| 1 | 58A ZB23025 | D 50 x 30 | 0.014 | 4.85 | 1.59 | 0.539 | 0.074 | 0.058 | 0.022 | 6.33 | 0.064 | 2.04 | . | . | . | 0.517 | . | 0.029 | |
| 1 | 58A BY6092764 | D 45 x 35 | 0.172 | 4.22 | 0.75 | 0.597 | 0.129 | 1.55 | 0.023 | 0.74 | 0.105 | 0.082 | . | . | 0.0072 | . | 0.146 | . | |
| 3 | 58A AC16105 | D 40 x 35 | . | 3.75 | 0.97 | 0.79 | 0.69 | 0.49 | 0.1 | 8.03 | . | 0.73 | . | . | . | . | . | . | |
| 1 | 58A BY6092763 | D 45 x 35 | 0.138 | 3.49 | 1.19 | 1.09 | 0.179 | 0.78 | (0.0008) | 0.41 | 0.05 | 0.139 | . | . | 0.027 | . | 0.198 | . | |
| 1 | 58A ST26140 | D -55 x 30 | . | 3.33 | 1.61 | 1.8 | 0.184 | 0.624 | . | 0.371 | 0.055 | 0.164 | . | . | . | . | . | . | |
| 1 | 58A BY6092762 | D 45 x 35 | 0.097 | 2.92 | 1.49 | 1.59 | 0.245 | 2.49 | 0.0061 | 0.166 | 0.015 | 0.276 | . | . | 0.0094 | . | 0.056 | . | |
| 1 | 58A ST29260c | D -55 x 30 | 0.318 | 2.71 | 0.749 | 3.96 | 0.047 | 0.012 | . | 0.708 | 0.205 | 0.955 | . | . | . | . | 0.237 | . | |
| 1 | 58A ST26120a | D -55 x 30 | . | 2.45 | 1.23 | 1.37 | 0.119 | 1.09 | . | 0.724 | 0.078 | 0.22 | . | . | . | . | . | . | |
| 1 | 58A ST2210b | D -55 x 30 | . | 2.08 | 0.691 | 2.06 | 0.337 | 0.108 | . | 0.474 | 0.087 | 0.051 | . | . | . | . | . | . | |
| 1 | 58A ST29240b | D -55 x 30 | 0.237 | 1.93 | 0.556 | 1.34 | 0.657 | 0.096 | . | 0.172 | 0.139 | 2.46 | . | . | . | . | 0.152 | . | |
| 1 | 58A ST1110 | D -55 x 30 | 0.092 | 1.88 | 0.825 | 0.692 | 1.24 | 0.161 | . | 1.25 | (0.121) | 0.401 | . | . | . | . | (0.191) | . | |
| 1 | 58A BY2132931 | D 42 x 32mm | . | 1.76 | 0.754 | 0.524 | 1.22 | 0.023 | . | 1.15 | 0.269 | 0.248 | . | . | . | . | . | . | |
| 1 | 58A BY6092761 | D 45 x 35 | 0.162 | 1.49 | 1.72 | 2.11 | 0.35 | 2.16 | 0.0047 | 0.063 | 0.03 | 0.353 | . | . | 0.0043 | . | 0.021 | . | |
| 1 | 58A ZB23020 | D 60 x 30 | 0.059 | 1.49 | 0.511 | 0.561 | 0.765 | 0.052 | 0.021 | 6.82 | 0.019 | 0.075 | . | . | 0.019 | 0.059 | 0.215 | Ga: 0.013 | |
| 1 | 58A ST36120e | D -55 x 30 | . | 1.16 | 0.759 | 0.897 | 0.456 | 0.088 | 0.107 | 5.52 | 0.111 | 0.646 | . | . | 0.04 | 0.074 | . | . | |
| 1 | 58A ST2260c | D -55 x 30 | . | 1.12 | 0.83 | 2.68 | 0.082 | 0.192 | . | 0.084 | 0.006 | 0.728 | . | . | . | . | . | . | |
| 1 | 58A BY23021 | D 45 x 35 | 0.11 | 1.08 | 0.518 | 1.15 | 0.171 | 0.905 | 0.018 | 9.69 | 0.163 | 0.171 | . | . | 0.053 | . | . | Na: 0.0062 | |
| 1 | 58A ST26150 | D -55 x 30 | . | 0.927 | 1.87 | 2.26 | 0.287 | 0.153 | . | 1.53 | 0.161 | 0.367 | . | . | . | . | . | . | |
| 1 | 58A BY7370 | D 56 x 50 | 0.1 | 0.916 | 0.578 | 1.13 | 0.155 | 1.03 | 0.069 | 12.25 | 0.17 | 0.215 | . | . | 0.012 | . | . | . | |
| 1 | 58A ST23388 | D 55 x 30 | . | 0.65 | 0.518 | 1.34 | 0.33 | 1.32 | 0.015 | 10.81 | 0.083 | 0.201 | . | . | 0.046 | . | . | . | |
| 1 | 58A SY23002 | D 50 x 30 | 0.139 | 0.646 | 0.681 | 0.539 | 0.342 | 0.162 | 0.035 | 5.37 | 0.101 | 0.199 | . | . | 0.023 | . | 0.028 | Be: 0.0038 | no center |
| 1 | 58A ST1150a | D -55 x 30 | 0.272 | 0.645 | 1.01 | 0.912 | 1.5 | 0.21 | . | 1.57 | 0.202 | 0.054 | . | . | . | . | (0.0058) | . | |

| # | Number | Unit | Cr | <u>Cu</u> | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Ca | P | Sn | Sr | Zr | Other |
|---|--------|------|----|-----------|----|----|----|----|----|----|----|----|----|---|----|----|----|-------|
|---|--------|------|----|-----------|----|----|----|----|----|----|----|----|----|---|----|----|----|-------|

Cu/Fe/Mn and Cu/Fe/Ni

| # | Number | Unit | Cr | <u>Cu</u> | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Sn | Sr | Zr |
|---|---------------|------------|---------|-----------|--------|-------|---------|-------|-------|-------|---------|-------|-------|----|--------|
| 2 | 58A AC10141 | D 45 x 35 | 0.3 | 4.5 | 1.31 | 0.054 | 0.032 | 0.61 | 0.023 | 6.32 | 0.051 | 1.23 | 0.025 | . | . |
| 1 | 58A ZB23027 | D 50 x 30 | (0.182) | 2.46 | (1.04) | 0.263 | (0.686) | 0.36 | 0.373 | 10.8 | (0.223) | 1.05 | 0.263 | . | (0.19) |
| 2 | 58A AC15051X | D 40 x 35 | 0.19 | 1.73 | 0.668 | 0.699 | 0.71 | 0.525 | 0.18 | 4.42 | 0.313 | 0.386 | 0.149 | . | 0.22 |
| 1 | 58A ST23384 | D 55 x 30 | . | 1.48 | 0.894 | 0.86 | 0.242 | 1.93 | . | 1.2 | 0.12 | 0.316 | . | . | . |
| 2 | 58A AC15052X | D 40 x 35 | 0.109 | 1.15 | 0.511 | 0.54 | 0.534 | 0.175 | 0.1 | 5.3 | 0.241 | 0.312 | 0.1 | . | 0.138 |
| 2 | 58A AC23035 | D 45 x 35 | 0.013 | 0.74 | 0.54 | 0.92 | 0.21 | 0.87 | 0.014 | 13.0 | 0.19 | 0.22 | 0.013 | . | . |
| 1 | 58A ST34240c | D -55 x 30 | 0.218 | 0.705 | 0.697 | 0.411 | 1.18 | 0.089 | . | 0.235 | 0.066 | 0.166 | . | . | . |
| 2 | 58A AC23050-1 | D 45 x 35 | 0.273 | 0.704 | 1.49 | 0.832 | 0.669 | 0.505 | 0.354 | 6.86 | 0.279 | 0.579 | 0.251 | . | 0.02 |

Cu/Fe/Si Alloys

| # | Number | Unit | Cr | <u>Cu</u> | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Ca | Co | Ga | P | Sn | Sr | Zr | Other |
|---|--------------|------------|-------|-----------|-------|---------|-------|--------|--------|-------|-------|-------|--------|-------|-------|--------|--------|-------|-------|-------------|
| 3 | 58A AC16103 | D 40 x 35 | . | 6.54 | 0.52 | 0.43 | 0.36 | 0.26 | 0.051 | 5.31 | . | 0.36 | . | . | . | . | 0.0072 | . | . | . |
| 1 | 58A AC23053 | D 45 x 35 | 0.19 | 5.33 | 0.99 | 0.78 | 0.11 | 0.11 | 0.11 | 15.0 | 0.052 | 1.38 | . | . | . | . | 0.32 | . | . | . |
| 1 | 58A AC23054 | D 45 x 35 | 0.1 | 4.7 | 0.62 | 0.66 | 0.21 | 0.22 | 0.055 | 16.6 | 0.098 | 0.96 | . | . | . | . | 0.22 | . | . | . |
| 2 | 58A AC10142 | D 45 x 35 | 0.21 | 3.83 | 0.94 | 0.11 | 0.16 | 0.45 | 0.1 | 7.45 | 0.1 | 0.91 | . | . | . | . | 0.1 | . | . | . |
| 1 | 58A ST23406 | D 62 x 30 | . | 3.55 | 0.833 | 0.159 | 0.314 | 0.242 | 0.08 | 8.45 | . | 0.787 | . | . | . | . | 0.075 | . | . | . |
| 1 | 58A ZB23026 | D 50 x 30 | 0.052 | 3.36 | 1.53 | (0.083) | 0.122 | 0.377 | 0.07 | 8.29 | 0.121 | 3.54 | . | . | . | . | 0.113 | . | 0.077 | V: 0.008 |
| 2 | 58A AC10143 | D 45 x 35 | 0.1 | 3.34 | 0.62 | 0.19 | 0.32 | 0.34 | 0.22 | 7.99 | 0.14 | 0.65 | . | . | . | . | 0.22 | . | . | . |
| 1 | 58A ST23382 | D 55 x 35 | 0.05 | 3.34 | 0.93 | 0.19 | 0.366 | 0.284 | 0.055 | 8.98 | 0.144 | 0.842 | . | . | . | . | 0.158 | . | . | . |
| 1 | 58A ST9440b | D -55 x 30 | . | 3.12 | 1.03 | 0.269 | 0.226 | 0.374 | 0.015 | 9.16 | . | 1.43 | . | . | . | . | 0.132 | . | . | . |
| 1 | 58A ST64840b | D -55 x 30 | . | 2.64 | 0.812 | 0.115 | 0.317 | 0.266 | . | 11.67 | 0.028 | 0.784 | . | . | . | . | 0.095 | . | . | . |
| 2 | 58A AC23057 | D 45 x 35 | 0.15 | 2.54 | 0.73 | 0.11 | 0.31 | 0.28 | 0.22 | 11.02 | 0.15 | 0.7 | . | . | . | . | 0.2 | . | . | Sb: 0.15 |
| 1 | 58A ST23383 | D 55 x 35 | 0.039 | 2.44 | 0.707 | 0.092 | 0.391 | 0.287 | 0.04 | 10.84 | 0.043 | 0.839 | . | . | . | . | 0.187 | . | 0.051 | . |
| 1 | 58A ZB23037 | D 50 x 30 | 0.035 | 2.17 | 1.01 | 0.168 | 0.225 | 0.0069 | 0.0028 | 10.83 | 0.027 | 0.142 | . | . | . | . | 0.0018 | . | . | V: 0.023 |
| 1 | 58A ZB23023 | D 60 x 30 | 0.014 | 2.11 | 0.999 | 0.041 | 0.427 | 0.301 | 0.288 | 8.8 | 0.255 | 0.699 | . | . | 0.014 | . | 0.214 | 0.045 | 0.015 | Sb: 0.024 |
| 1 | 58A ZB23036 | D 50 x 30 | 0.032 | 2.09 | 1.33 | 0.032 | 0.21 | 0.0062 | 0.0019 | 10.33 | 0.047 | 0.217 | . | . | . | . | 0.0024 | . | . | V: 0.023 |
| 1 | 58A ZB23038 | D 50 x 30 | 0.034 | 2.03 | 1.2 | 0.085 | 0.194 | 0.0076 | 0.0041 | 10.36 | 0.026 | 0.2 | . | . | . | . | 0.002 | . | . | V: 0.021 |
| 2 | 58A ST23379 | D 55 x 35 | . | 1.71 | 0.897 | 0.46 | 0.313 | 0.111 | 0.043 | 10.03 | 0.144 | 0.831 | . | . | . | . | . | . | . | . |
| 2 | 58A AC12353 | D 45 x 35 | 0.07 | 1.03 | 0.73 | 0.33 | 0.46 | 0.3 | 0.11 | 12.69 | 0.1 | 0.42 | 0.024 | 0.095 | . | 0.0043 | 0.054 | . | . | Sb: (0.032) |
| 2 | 58A AC12352 | D 45 x 35 | 0.11 | 0.76 | 0.96 | 0.4 | 0.5 | 0.43 | 0.21 | 11.73 | 0.14 | 0.49 | 0.0023 | 0.078 | . | 0.0085 | 0.1 | . | . | Sb: (0.024) |
| 1 | 58A ST23394 | D 55 x 30 | 0.359 | 0.524 | 0.5 | 0.914 | 0.259 | 0.049 | . | 1.27 | 0.028 | 0.096 | . | . | . | . | . | . | . | . |

Cu/Mg and Cu/Mg/Mn

| # | Number | Unit | Cr | <u>Cu</u> | Fe | Mg | Mn | Ni | Si | Ti | Zn | Be | Zr | Other |
|---|---------------|-------------|--------|-----------|-------|------|-------|--------|-------|--------|---------|----------|-------|----------------------------------|
| 1 | 58A ST23392 | D 55 x 35 | 0.051 | 4.82 | 0.199 | 1.74 | 0.626 | 0.055 | 0.109 | 0.027 | 0.197 | . | . | . |
| 1 | 58A ZB23059 | D 40 x 30 | 0.001 | 4.78 | 0.218 | 1.73 | 0.366 | 0.0025 | 0.262 | 0.025 | 0.059 | . | . | . |
| 1 | 58A ZB23057 | D 40 x 30 | . | 4.31 | 0.231 | 1.45 | 0.665 | 0.0025 | 0.4 | 0.038 | 0.067 | . | . | . |
| 1 | 58A ZB23003 | D 50 x 30 | 0.0053 | 4.27 | 0.321 | 1.46 | 0.606 | 0.0033 | 0.101 | 0.013 | 0.153 | . | . | Pb: 0.0029, Sn: 0.0022, V: 0.026 |
| 1 | 58A ZB23002 | D 50 x 30 | 0.019 | 4.22 | 0.34 | 1.53 | 0.552 | 0.0035 | 0.115 | 0.016 | 0.507 | . | . | Pb: 0.003, Sn: 0.0037, V: 0.01 |
| 1 | 58A ST2230b | D -55 x 30 | . | 4.19 | 0.387 | 1.55 | 0.553 | 0.037 | 0.129 | 0.044 | 0.14 | . | . | . |
| 1 | 58A BY2132933 | D 42 x 32mm | 0.079 | 3.96 | 0.296 | 1.25 | 0.374 | 0.038 | 0.399 | 0.054 | 0.174 | . | . | . |
| 1 | 58A ST46150 | D -55 x 30 | 0.097 | 3.93 | 0.195 | 1.13 | 0.924 | 0.104 | 0.151 | 0.115 | 0.024 | 0.0012 | 0.204 | . |
| 1 | 58A ST46140 | D -55 x 30 | 0.075 | 3.58 | 0.168 | 1.41 | 0.769 | 0.084 | 0.13 | 0.091 | 0.153 | 0.0019 | 0.178 | . |
| 1 | 58A ST46130 | D -55 x 30 | 0.055 | 3.44 | 0.146 | 1.57 | 0.638 | 0.058 | 0.104 | 0.058 | 0.065 | 0.001 | 0.13 | . |
| 1 | 58A ST46120 | D -55 x 30 | 0.037 | 3.15 | 0.086 | 1.72 | 0.503 | 0.038 | 0.054 | 0.034 | 0.08 | 0.00068 | 0.081 | . |
| 1 | 58A ST46110 | D -55 x 30 | 0.016 | 2.84 | 0.062 | 2.08 | 0.34 | 0.019 | 0.03 | 0.0088 | 0.114 | 0.000066 | . | . |
| 1 | 58A BY2132932 | D 42 x 32mm | 0.032 | 2.82 | 0.167 | 2.44 | 0.666 | 0.059 | 0.169 | 0.005 | 0.059 | . | . | . |
| 1 | 58A ST57940 | D 45 x 40 | 0.058 | 1.6 | 0.264 | 1.62 | 0.138 | . | 0.214 | 0.07 | (0.204) | . | 0.061 | Li: 1.63 |
| 1 | 58A ST57930 | D 45 x 40 | 0.073 | 1.11 | 0.148 | 1.33 | 0.081 | . | 0.15 | 0.092 | 0.146 | . | 0.077 | Li: 1.99 |
| 1 | 58A ST57920 | D 45 x 40 | 0.103 | 0.824 | 0.043 | 0.68 | 0.097 | . | 0.025 | 0.134 | 0.041 | . | 0.042 | Li: 2.52 |

| # | Number | Unit | Cr | <u>Cu</u> | Fe | Mg | Mn | Ni | Si | Ti | Zn | Be | Zr | Other |
|---|--------|------|----|-----------|----|----|----|----|----|----|----|----|----|-------|
|---|--------|------|----|-----------|----|----|----|----|----|----|----|----|----|-------|

Cu/Mg/Si Alloys

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | P | Sn | Other |
|---|--------------|------------|--------|-------|-------|-------|-------|--------|--------|---------|--------|-------|---|--------|-----------------------------------|
| 1 | 58A ST2240c | D -55 x 30 | . | 5.77 | 0.203 | 1.2 | 0.204 | 0.06 | . | 0.676 | 0.184 | 0.322 | . | . | |
| 1 | 58A ZB23056 | D 40 x 30 | . | 3.63 | 0.268 | 1.06 | 0.484 | 0.0027 | . | 0.663 | 0.06 | 0.085 | . | . | |
| 1 | 58A ST2220b | D -55 x 30 | . | 3.6 | 0.44 | 0.8 | 1.04 | 0.019 | . | 0.54 | 0.016 | 0.1 | . | . | |
| 1 | 58A AC23056 | D 45 x 35 | 0.011 | 3.11 | 0.25 | 0.3 | 0.61 | 0.54 | 0.0078 | 20.5 | 0.31 | 0.32 | . | 0.054 | |
| 1 | 58A ZB23022 | D 60 x 30 | 0.161 | 3.1 | 0.338 | 1.07 | 1.02 | 0.031 | 0.137 | 3.27 | 0.16 | 0.932 | . | 0.01 | Be: 0.00055, Ga: 0.04, Sr: 0.0025 |
| 3 | 58A AC17111 | D 40 x 35 | . | 2.17 | 0.47 | 0.74 | 0.56 | . | 0.1 | 6.73 | 0.44 | 0.31 | . | 0.029 | |
| 1 | 58A ZB23058 | D 40 x 30 | 0.0017 | 2.08 | 0.429 | 0.341 | 0.521 | 0.003 | . | 0.91 | 0.152 | 0.186 | . | . | |
| 1 | 58A ST36130f | D -55 x 30 | . | 2.04 | 0.188 | 0.744 | 0.544 | 0.06 | 0.066 | 13.15 | 0.042 | 0.204 | . | 0.019 | Sr: 0.045 |
| 3 | 58A AC17112 | D 40 x 35 | . | 1.86 | 0.37 | 0.6 | 0.5 | . | 0.073 | 7.58 | 0.35 | 0.21 | . | 0.022 | |
| 1 | 58A BY23018 | D 45 x 35 | 0.023 | 1.742 | 0.131 | 0.377 | 0.023 | 1.26 | 0.088 | 4.52 | 0.17 | 0.04 | . | 0.0068 | Na: 0.0019 |
| 2 | 58A AC23032 | D 45 x 35 | 0.1 | 1.67 | 0.23 | 1.8 | 0.47 | 1.77 | 0.11 | 10.07 | 0.023 | 0.54 | . | 0.098 | |
| 2 | 58A AC10145 | D 45 x 35 | 0.01 | 1.52 | 0.18 | 0.55 | 0.64 | 0.024 | 0.42 | 10.77 | 0.25 | 0.16 | . | 0.42 | |
| 1 | 58A SY23012 | D 50 x 35 | . | 1.51 | 0.168 | 0.76 | 0.63 | 0.0042 | . | 11.82 | 0.0085 | 0.008 | . | . | |
| 1 | 58A NK23002 | D 50 x 30 | . | 1.5 | 0.464 | 0.52 | 0.485 | 0.012 | 0.048 | 8.24 | 0.225 | 0.178 | . | 0.01 | |
| 1 | 58A ST50160 | D -55 x 30 | 0.0063 | 1.46 | . | 0.513 | . | 0.353 | 0.043 | (14.56) | 0.179 | 0.049 | . | 0.013 | |
| 2 | 58A AC23033 | D 45 x 35 | 0.07 | 1.35 | 0.35 | 1.44 | 0.37 | 1.49 | 0.78 | 11.1 | 0.079 | 0.43 | . | 0.07 | |
| 1 | 58A ST50140a | D -55 x 30 | . | 1.26 | 0.358 | 0.654 | 0.811 | 0.595 | 0.032 | 12.46 | 0.148 | 0.113 | . | 0.0099 | |
| 1 | 58A SY23001 | D 50 x 30 | 0.187 | 1.16 | 0.224 | 0.67 | 0.119 | 0.258 | 0.07 | 4.95 | 0.197 | 0.388 | . | 0.022 | Be: 0.0058, Zr: 0.081 no center |
| 1 | 58A ST50130 | D -55 x 30 | . | 1.13 | . | 1.14 | . | 1.0 | 0.039 | 7.08 | 0.056 | 0.098 | . | 0.0085 | |
| 2 | 58A AC23034 | D 45 x 35 | 0.044 | 1.1 | 0.45 | 1.2 | 0.29 | 1.32 | 0.0 | 12.45 | 0.14 | 0.35 | . | 0.044 | |
| 1 | 58A ST23385 | D 55 x 35 | 0.077 | 0.915 | 0.361 | 1.08 | 0.049 | 0.897 | 0.053 | 12.07 | 0.038 | 0.166 | . | 0.03 | Zr: 0.045 |
| 1 | 58A ST50120a | D -55 x 30 | . | 0.913 | 0.213 | 0.837 | 0.648 | 0.818 | 0.149 | 11.56 | 0.109 | 0.161 | . | 0.108 | |
| 1 | 58A BY23019 | D 45 x 35 | 0.054 | 0.578 | 0.232 | 1.56 | 0.087 | 0.542 | 0.01 | 13.44 | 0.026 | 0.102 | . | 0.01 | Sr: 0.028 |
| 1 | 58A ZB23065 | D 40 x 30 | 0.448 | 0.074 | 0.448 | 3.54 | 0.419 | 0.0076 | . | 0.708 | 0.0085 | 0.146 | . | . | V: 0.0063 |

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | P | Sn | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|---|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|---|----|-------|

Cu/Mg/Zn Alloys

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | Zn | Be | Zr | Other |
|---|---------------|------------|--------|-------|-------|------|-------|--------|--------|--------|------|---------|-------|----------|
| 1 | 58A BY23025 | D 55 x 40 | 0.04 | 2.5 | 0.018 | 2.7 | 0.056 | 0.036 | 0.0084 | 0.043 | 8.03 | 0.0018 | 0.121 | V: 0.043 |
| 1 | 58A BY5887961 | D 50 x 50 | 0.041 | 2.45 | 0.044 | 3.13 | 0.03 | 0.0087 | 0.043 | 0.0068 | 3.21 | 0.0014 | 0.149 | |
| 1 | 58A ST48310 | D -55 x 30 | 0.034 | 2.45 | 0.094 | 1.31 | 0.039 | 0.037 | 0.034 | 0.0061 | 7.1 | . | 0.043 | |
| 1 | 58A ST48320 | D -55 x 30 | 0.084 | 2.25 | 0.12 | 1.86 | 0.088 | 0.075 | 0.088 | 0.021 | 6.38 | . | 0.084 | |
| 1 | 58A ST48330 | D -55 x 30 | 0.118 | 1.9 | 0.163 | 2.13 | 0.119 | 0.113 | 0.124 | 0.048 | 5.91 | . | 0.113 | |
| 1 | 58A BY23026 | D 55 x 40 | 0.153 | 1.69 | 0.13 | 2.56 | 0.371 | 0.07 | 0.065 | 0.047 | 5.89 | . | . | |
| 1 | 58A ST47210 | D -55 x 30 | 0.0053 | 1.64 | 0.099 | 1.27 | 0.032 | 0.0077 | 0.035 | 0.0098 | 7.55 | . | 0.05 | |
| 1 | 58A BY23030 | D 55 x 40 | 0.198 | 1.62 | 0.397 | 2.45 | 0.308 | 0.042 | 0.274 | 0.08 | 6.24 | . | . | |
| 1 | 58A ST48340 | D -55 x 30 | 0.15 | 1.52 | 0.195 | 2.53 | 0.161 | 0.152 | 0.156 | 0.073 | 5.53 | . | 0.16 | |
| 1 | 58A ST47220 | D -55 x 30 | 0.023 | 1.29 | 0.037 | 1.53 | 0.015 | 0.032 | 0.076 | 0.031 | 7.03 | . | 0.1 | |
| 1 | 58A BY5887963 | D 50 x 50 | 0.147 | 1.22 | 0.336 | 2.3 | 0.181 | 0.093 | 0.206 | 0.143 | 5.21 | 0.00004 | 0.039 | |
| 1 | 58A ST48350 | D -55 x 30 | 0.191 | 1.14 | 0.234 | 2.94 | 0.199 | 0.178 | 0.203 | 0.098 | 5.09 | . | 0.182 | |
| 1 | 58A ST47230 | D -55 x 30 | 0.046 | 0.951 | 0.165 | 1.79 | 0.053 | 0.051 | 0.121 | 0.053 | 6.57 | . | 0.169 | |
| 1 | 58A BY23022 | D 55 x 40 | 0.17 | 0.89 | 0.46 | 4.02 | 0.337 | 0.048 | 0.216 | 0.118 | 4.3 | . | . | |
| 1 | 58A ST29220b | D -55 x 30 | 0.18 | 0.674 | 0.253 | 2.88 | 0.498 | 0.073 | 0.421 | 0.104 | 3.95 | . | 0.075 | |
| 1 | 58A BY5887962 | D 50 x 50 | 0.071 | 0.65 | 0.087 | 3.84 | 0.083 | 0.052 | 0.085 | 0.027 | 3.98 | 0.0049 | 0.1 | |
| 1 | 58A ST47240 | D -55 x 30 | 0.061 | 0.631 | 0.231 | 2 | 0.08 | 0.111 | 0.165 | 0.075 | 6.03 | . | 0.202 | |

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Si | Ti | Zn | Be | Zr | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|-------|

Cu/Mn and Cu/Ni

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Sn | Zr | Other |
|---|---------------|------------|-------|------|-------|--------|-------|-------|-------|-------|--------|-------|-------|-------|--------------------------------|
| 1 | 58A ST16350 | D -55 x 30 | . | 5.68 | 0.244 | 0.0079 | 0.576 | . | . | 0.173 | 0.067 | 0.028 | . | 0.226 | B: 0.0076, Cd: 0.062, V: 0.253 |
| 1 | 58A ST23393 | D 55 x 30 | . | 5.54 | 0.113 | 0.016 | 0.046 | 2.228 | . | 0.091 | 0.0055 | 0.076 | . | . | |
| 1 | 58A ST9410a | D -55 x 30 | . | 4.92 | 0.227 | 0.065 | 0.589 | 0.018 | 0.289 | 6.76 | . | 0.101 | 0.202 | . | |
| 1 | 58A ST26110 | D -55 x 30 | . | 4.51 | 0.454 | 0.428 | 0.095 | 1.55 | . | 0.904 | 0.021 | 0.14 | . | . | |
| 1 | 58A ST1130a | D -55 x 30 | 0.13 | 4.43 | 0.421 | 0.441 | 0.534 | 0.039 | . | 0.521 | 0.045 | 0.215 | . | 0.137 | |
| 1 | 58A BY6092765 | D 45 x 35 | 0.038 | 2.07 | 0.39 | 0.304 | 0.062 | 1.09 | 0.052 | 1.2 | 0.135 | 0.055 | 0.046 | 0.096 | |

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Sn | Zr | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|-------|

Cu/Si and Cu/Zn

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Be | Ca | Sn | Zr | Other |
|---|---------------|-------------|---------|-------|---------|-------|---------|--------|--------|---------|-------|--------|---------|----------|--------|---------|---------------------|
| 3 | 58A AC16101 | D 40 x 35 | . | 9.49 | 0.15 | 0.22 | 0.098 | 0.052 | 0.011 | 3.12 | . | 0.1 | . | . | 0.024 | . | . |
| 3 | 58A AC16102 | D 40 x 35 | . | 8.04 | 0.28 | 0.3 | 0.19 | 0.14 | 0.031 | 3.86 | . | 0.2 | . | . | 0.016 | . | . |
| 3 | 58A AC9206X | D 40 x 35 | 0.046 | 5.11 | 0.173 | 0.022 | 0.576 | 0.017 | 0.052 | 3.51 | 0.35 | 0.122 | . | 0.0015 | 0.011 | . | Sr: 0.0016 |
| 1 | 58A BY2132934 | D 42 x 32mm | 0.333 | 4.82 | 0.481 | 0.289 | 0.176 | 0.129 | . | 0.658 | 0.027 | 0.432 | . | . | . | . | . |
| 3 | 58A AC9205X | D 40 x 35 | 0.076 | 4.51 | 0.324 | 0.047 | 0.501 | 0.049 | 0.098 | 4.01 | 0.256 | 0.29 | . | 0.0043 | 0.026 | . | Sr: 0.0086 |
| 2 | 58A AC23045 | D 45 x 35 | . | 4.18 | 0.45 | 0.052 | 0.087 | 0.071 | 0.042 | 7.13 | 0.068 | 0.16 | . | . | 0.011 | . | . |
| 1 | 58A AC23055 | D 45 x 35 | 0.054 | 4.16 | 0.45 | 0.39 | 0.42 | 0.32 | 0.012 | 18.5 | 0.22 | 0.65 | . | . | 0.11 | . | . |
| 1 | 58A ST9420a | D -55 x 30 | . | 3.85 | 0.445 | 0.112 | 0.474 | 0.112 | 0.221 | 7.8 | . | 0.386 | . | . | 0.037 | . | . |
| 3 | 58A AC9204X | D 40 x 35 | 0.14 | 3.78 | 0.505 | 0.13 | 0.399 | 0.11 | 0.153 | 4.85 | 0.201 | 0.525 | . | . | 0.042 | . | Sr: 0.03 |
| 1 | 58A ZB23033 | D 50 x 30 | 0.0017 | 3.78 | 0.171 | 0.017 | 0.0028 | 0.0047 | 0.0051 | 7.22 | . | 0.0048 | . | V:0.0083 | . | . | P: 0.0025 |
| 1 | 58A AC9203X | D 40 x 35 | 0.171 | 2.93 | 0.736 | 0.247 | 0.312 | 0.197 | 0.214 | 5.55 | 0.148 | 0.659 | . | 0.013 | 0.083 | . | Sr: 0.093 |
| 1 | 58A ZB23055 | D 40 x 30 | . | 2.85 | 0.34 | 0.544 | 0.292 | 0.0028 | . | 1.12 | 0.106 | 0.118 | . | . | . | . | . |
| 1 | 58A AC9202X | D 40 x 35 | 0.221 | 2.32 | 0.906 | 0.454 | 0.217 | 0.338 | 0.277 | 6.55 | 0.1 | 0.911 | . | 0.019 | 0.127 | . | Sr: 0.059 |
| 2 | 58A AC10144 | D 45 x 35 | 0.052 | 2.28 | 0.37 | 0.35 | 0.42 | 0.15 | 0.31 | 9.62 | 0.19 | 0.37 | . | . | 0.32 | . | . |
| 1 | 58A BY5887964 | D 50 x 50 | 0.27 | 1.95 | 0.201 | 0.46 | 0.394 | 0.175 | . | 0.42 | 0.065 | 5.97 | 0.00039 | . | . | 0.196 | . |
| 2 | 58A AC17113a | D 40 x 35 | . | 1.6 | 0.34 | 0.45 | 0.42 | . | 0.058 | 8.6 | 0.11 | 0.12 | . | . | 0.014 | . | . |
| 3 | 58A AC9201X | D 40 x 35 | 0.256 | 1.55 | 1.34 | 0.573 | 0.106 | 0.411 | 0.323 | 7.49 | 0.06 | 1.26 | . | 0.0079 | 0.174 | . | Sr: 0.0058 |
| 1 | 58A ST23381 | D 55 x 35 | . | 1.51 | 0.247 | 0.553 | 0.258 | 0.037 | 0.059 | 8.96 | 0.222 | 0.076 | . | . | 0.0089 | 0.036 | . |
| 2 | 58A AC12355 | D 45 x 35 | 0.0082 | 1.43 | 0.22 | 0.11 | 0.23 | 0.12 | 0.012 | 14.0 | 0.118 | 0.22 | . | 0.013 | 0.005 | . | Co: 0.021, P: 0.015 |
| 1 | 58A ST23380 | D 55 x 35 | . | 1.23 | 0.423 | 0.468 | 0.436 | 0.061 | 0.049 | 7.8 | 0.185 | 0.156 | . | . | 0.0098 | . | . |
| 2 | 58A AC12354 | D 45 x 35 | 0.013 | 1.14 | 0.47 | 0.22 | 0.34 | 0.22 | 0.055 | 13.23 | 0.053 | 0.32 | . | 0.0066 | 0.013 | . | Co: 0.04, P: 0.0066 |
| 1 | 58A ZB23034 | D 50 x 30 | 0.0025 | 1.07 | 0.215 | 0.4 | 0.394 | 0.0041 | 0.0015 | 8.1 | 0.204 | 0.0032 | . | V:0.016 | . | 0.0016 | P: 0.0028 |
| 1 | 58A ZB23035 | D 50 x 30 | 0.0025 | 1.07 | 0.215 | 0.4 | 0.394 | 0.0041 | 0.0015 | 7.94 | 0.204 | 0.0032 | . | V:0.016 | . | 0.0016 | P: 0.0028 |
| 3 | 58A AC17115 | D 40 x 35 | . | 0.99 | 0.21 | 0.21 | 0.087 | . | 0.018 | 10.73 | 0.051 | 0.044 | . | . | 0.0031 | . | . |
| 1 | 58A ZB23029 | D 50 x 30 | (0.228) | 0.77 | (0.272) | 0.354 | (0.358) | 0.205 | 0.246 | (13.79) | (0.2) | 1.39 | . | . | 0.311 | (0.214) | V: 0.011 |
| 2 | 58A AC15053X | D 40 x 35 | 0.052 | 0.579 | 0.402 | 0.349 | 0.319 | 0.103 | 0.056 | 6.28 | 0.201 | 0.219 | 0.096 | . | 0.051 | 0.049 | . |

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Be | Ca | Sn | Zr | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-------|

Fe and Fe/Mg

| # | Number | Disc | Be | Cd | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr | Other |
|---|---------------|----------|---------|--------|--------|-------|-------|-------|--------|-------|----------|--------|-------|-------|---------|--------|-------|----|--------------|
| 3 | 58A AC13365 | 40 x 35 | . | 0.0053 | 0.014 | 0.017 | 1.18 | . | 6.33 | 0.058 | 0.012 | 0.011 | 0.09 | 0.011 | 0.048 | . | 0.054 | . | . |
| 1 | 58A BY4545961 | 55 x 35 | 0.0005 | . | 0.13 | 0.222 | 1.17 | . | 1.71 | 1.04 | 0.153 | . | 0.91 | . | 0.218 | . | 0.293 | . | no center |
| 2 | 58A ZH23010 | 60 x 30 | . | . | 0.0041 | 0.027 | 0.890 | 0.020 | 0.0091 | 0.017 | 0.0031 | . | 0.695 | . | 0.010 | 0.0060 | 0.039 | . | . |
| 1 | 58A ZB23062 | 40 x 30 | . | . | 0.117 | 0.174 | 0.845 | . | 1.62 | 0.216 | 0.022 | . | 0.308 | . | 0.009 | 0.0071 | 0.344 | . | . |
| 3 | 58A AC13364 | 40 x 35 | . | 0.008 | 0.054 | 0.054 | 0.77 | . | 5.24 | 0.21 | 0.051 | 0.052 | 0.31 | 0.047 | 0.11 | . | 0.16 | . | . |
| 1 | 58A BY3166934 | 42 x 32 | . | . | 0.034 | 0.183 | 0.743 | . | 1.16 | 0.048 | 0.051 | . | 0.084 | . | 0.039 | . | 0.031 | . | . |
| 1 | 58A ZB23063 | 40 x 30 | . | . | 0.214 | 0.144 | 0.718 | . | 2.21 | 0.292 | 0.018 | . | 0.461 | . | 0.009 | 0.0068 | 0.284 | . | . |
| 1 | 58A ST17360a | ~55 x 30 | 0.00056 | . | 0.273 | 0.243 | 0.696 | . | 3.76 | 0.865 | 0.035 | . | 0.6 | . | 0.192 | . | 0.285 | . | . |
| 1 | 58A BY4545963 | 55 x 35 | 0.0053 | . | 0.391 | 0.117 | 0.65 | . | 4.72 | 0.215 | 0.102 | . | 0.379 | . | 0.17 | . | 0.178 | . | no center |
| 1 | 58A ST17340b | ~55 x 30 | 0.0013 | . | 0.243 | 0.207 | 0.634 | . | 7.54 | 0.706 | 0.185 | . | 0.479 | . | 0.11 | . | 0.571 | . | . |
| 3 | 58A AC13363 | 40 x 35 | . | 0.023 | 0.1 | 0.094 | 0.6 | . | 4.17 | 0.4 | 0.099 | 0.1 | 0.62 | 0.092 | 0.15 | . | 0.26 | . | . |
| 2 | 58A AC23018 | 50 x 30 | . | . | 0.19 | 0.28 | 0.59 | . | 0.56 | 0.39 | 0.19 | 0.19 | 4.49 | 0.2 | 0.2 | . | 0.38 | . | Ca: (0.0015) |
| 2 | 58A ZH23012 | 60 x 30 | . | . | 0.013 | 0.096 | 0.580 | 0.043 | 0.033 | 0.040 | 0.0082 | . | 0.361 | . | 0.065 | 0.012 | 0.075 | . | B: 0.010 |
| 1 | 58A ZH2010 | 60 x 30 | . | . | 0.176 | 0.306 | 0.587 | . | 0.189 | 0.414 | (0.0010) | . | 0.109 | . | 0.002 | . | 0.004 | . | . |
| 1 | 58A ST53250 | ~55 x 30 | 0.0026 | . | . | 0.028 | 0.545 | . | 5.28 | 1.14 | 0.025 | . | 0.528 | . | 0.202 | . | 0.254 | . | Sb: 0.001 |
| 1 | 58A ZB23064 | 40 x 30 | . | . | 0.264 | 0.099 | 0.542 | . | 3.02 | 0.374 | 0.011 | . | 0.576 | . | 0.0085 | 0.0062 | 0.192 | . | . |
| 1 | 58A ST37070 | 45 x 25 | . | . | . | 0.048 | 0.505 | 0.032 | 0.021 | 0.07 | 0.133 | 0.0052 | 0.491 | . | (0.138) | . | 1.5 | . | . |

| # | Number | Disc | Be | Cd | Cr | Cu | Fe | Ga | Mg | Mn | Ni | Pb | Si | Sn | Ti | V | Zn | Zr | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|----|-------|

Fe/Mn Alloys

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Sn | Zr | Other |
|---|--------------|------------|---------|-------|---------|--------|--------|-------|--------|--------|--------|--------|--------|---------|----------------------------------|
| 2 | 58A AC12351 | D 45 x 35 | 0.16 | 0.48 | 1.25 | 0.49 | 0.6 | 0.52 | 0.31 | 10.99 | 0.21 | 0.58 | 0.19 | . | Co: 0.092, P: 0.0015, Sb:(0.033) |
| 1 | 58A ST23375 | D 55 x 30 | . | 0.249 | 1.04 | 0.11 | 0.568 | 0.167 | 0.023 | 0.741 | 0.129 | 0.174 | . | . | . |
| 2 | 58A AC18025 | D 45 x 35 | . | 0.493 | 0.825 | 0.184 | 0.689 | . | . | 7.704 | 0.333 | 0.21 | . | . | . |
| 1 | 58A ST34250c | D -55 x 30 | 0.288 | 0.078 | 0.848 | 0.068 | 1.48 | 0.115 | . | 1.58 | 0.0083 | 0.041 | . | . | . |
| 2 | 58A AC1725 | D 50 x 30 | 0.145 | 0.303 | 0.806 | 0.0027 | 0.78 | . | . | 0.704 | 0.208 | 0.0067 | . | 0.0025 | . |
| 2 | 58A AC18024 | D 45 x 35 | . | 0.392 | 0.727 | 0.13 | 0.635 | . | . | 10.024 | 0.297 | 0.166 | . | . | . |
| 1 | 58A ZB23028 | D 50 x 30 | (0.255) | 0.301 | (0.716) | 0.202 | (0.96) | 0.634 | 0.324 | 12.45 | (0.22) | 0.516 | 0.193 | (0.229) | . |
| 1 | 58A ST6110c | D -55 x 30 | . | 0.176 | 0.662 | 0.011 | 0.841 | 0.024 | 0.0043 | 0.588 | 0.018 | 0.028 | . | . | . |
| 2 | 58A AC1724 | D 50 x 30 | 0.08 | 0.205 | 0.652 | 0.03 | 1.05 | . | . | 0.551 | 0.146 | 0.034 | . | 0.016 | . |
| 1 | 58A ST36150e | D -55 x 30 | . | 0.084 | 0.626 | 0.036 | 0.809 | 0.174 | 0.0078 | 8.03 | 0.017 | 0.028 | 0.0018 | . | Sr: 0.0058 |
| 1 | 58A ST6120e | D -55 x 30 | . | 0.092 | 0.541 | 0.027 | 1.3 | 0.047 | 0.0021 | 0.413 | 0.034 | 0.12 | . | . | . |
| 1 | 58A BY7250 | D 56 x 50 | 0.046 | 0.094 | 0.505 | 0.045 | 1.26 | 0.046 | . | 0.3 | 0.083 | 0.116 | . | . | Ga: 0.0093 |
| 2 | 58A AC1723 | D 50 x 30 | 0.04 | 0.12 | 0.502 | 0.101 | 1.28 | . | . | 0.41 | 0.106 | 0.09 | . | 0.045 | . |

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Sn | Zr | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|-------|

Fe/Si Alloys

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Be | Ga | Sn | V | Zr | Other |
|---|---------------|-------------|--------|--------|-------|---------|--------|--------|---------|--------|---------|-------|--------|--------|--------|--------|--------|-----------------------|
| 1 | 58A BY1101925 | D 38 x 32mm | . | 0.079 | 1.31 | 0.103 | 0.112 | 0.1 | . | 1.28 | 0.093 | 0.073 | . | . | . | . | . | . |
| 2 | 58A AC8066 | D 45 x 35 | 0.031 | 0.06 | 1.2 | 0.062 | 0.066 | 0.031 | . | 1.16 | 0.062 | 0.062 | . | 0.062 | . | 0.054 | . | . |
| 1 | 58A ST30130f | D 55 x 35 | . | 0.096 | 1.18 | 0.066 | 0.064 | 0.035 | . | 1.18 | 0.038 | 0.085 | . | 0.021 | . | . | . | . |
| 1 | 58A ST23389 | D 55 x 30 | . | 0.066 | 1.1 | 0.495 | 0.07 | . | 0.113 | 8.34 | 0.042 | 0.013 | 0.054 | . | 0.053 | . | 0.196 | . |
| 1 | 58A ST23376 | D 55 x 35 | . | 0.022 | 1.05 | 0.136 | 0.114 | 0.118 | . | 0.878 | 0.066 | 0.207 | . | 0.061 | . | . | . | . |
| 2 | 58A AC23050-2 | D 45 x 35 | 0.177 | 0.484 | 0.951 | 0.59 | 0.456 | 0.268 | 0.269 | 7.97 | 0.243 | 0.445 | . | . | 0.144 | . | 0.14 | . |
| 1 | 58A ST37040 | D 45 x 25 | . | 0.104 | 0.94 | 0.092 | 0.046 | 0.05 | . | 0.933 | 0.054 | 0.096 | . | . | 0.119 | 0.121 | . | Cd: 0.048, Sb: 0.0043 |
| 2 | 58A AC23050-3 | D 45 x 35 | 0.054 | 0.294 | 0.858 | 0.38 | 0.288 | 0.146 | 0.207 | 8.8 | 0.187 | 0.254 | . | . | 0.096 | . | 0.098 | . |
| 1 | 58A ZB23019 | D 60 x 30 | 0.079 | 0.382 | 0.857 | 0.266 | 0.293 | 0.189 | 0.091 | 10.9 | 0.062 | 0.403 | 0.014 | 0.013 | 0.08 | . | 0.182 | Sb: 0.037, Sr: 0.178 |
| 2 | 58A AC8065 | D 45 x 35 | 0.021 | 0.041 | 0.846 | 0.042 | 0.045 | 0.021 | . | 0.82 | 0.042 | 0.043 | . | 0.042 | . | 0.032 | . | . |
| 1 | 58A ST37060 | D 45 x 25 | . | 0.134 | 0.748 | 0.127 | 0.142 | 0.105 | . | 0.79 | 0.114 | 0.522 | . | . | 0.071 | 0.027 | . | Cd: 0.011, Sb: 0.097 |
| 1 | 58A ST23372 | D 55 x 35 | . | 0.314 | 0.737 | 0.111 | 0.337 | 0.062 | 0.05 | 12.31 | 0.102 | 0.099 | . | . | 0.021 | . | 0.052 | . |
| 2 | 58A AC23036 | D 45 x 35 | 0.004 | 0.46 | 0.68 | 0.6 | 0.12 | 0.55 | 0.0025 | 14.05 | 0.25 | 0.11 | . | . | 0.0032 | . | . | . |
| 1 | 58A ST30150m | D 55 x 35 | . | 0.068 | 0.654 | 0.038 | 0.172 | 0.077 | . | 0.606 | 0.096 | 0.138 | . | 0.046 | . | . | . | . |
| 2 | 58A AC18023 | D 45 x 35 | . | 0.306 | 0.635 | 0.077 | 0.495 | . | . | 11.409 | 0.193 | 0.112 | . | . | . | . | . | . |
| 1 | 58A ST37050 | D 45 x 25 | . | 0.076 | 0.612 | (0.056) | 0.108 | 0.075 | 0.065 | 0.634 | 0.081 | 1.05 | . | 0.0085 | . | . | . | B: (0.0047) |
| 1 | 58A ZB23039 | D 50 x 30 | 0.055 | 0.163 | 0.601 | 0.398 | 0.222 | 0.0054 | 0.0032 | 9.24 | 0.022 | 0.05 | . | . | 0.021 | 0.0012 | . | P: 0.003 |
| 2 | 58A AC23044 | D 40 x 35 | 0.0027 | 0.014 | 0.61 | 0.026 | 0.033 | 0.016 | 0.0029 | 9.42 | 0.025 | 0.045 | 0.0063 | . | 0.0043 | . | 0.022 | . |
| 1 | 58A BY1101923 | D 38 x 32mm | . | 0.191 | 0.59 | 0.022 | 0.014 | 0.032 | . | 0.58 | 0.041 | 0.122 | . | . | . | . | . | . |
| 2 | 58A AC23050-4 | D 45 x 35 | 0.025 | 0.096 | 0.554 | 0.212 | 0.104 | 0.094 | 0.109 | 10.13 | 0.152 | 0.148 | . | . | 0.047 | . | 0.066 | . |
| 1 | 58A SY23006 | D 50 x 30 | 0.039 | 0.272 | 0.546 | 0.089 | 0.25 | 0.039 | 0.016 | 10.63 | 0.0042 | 0.2 | 0.0024 | . | 0.05 | . | 0.0062 | no center |
| 1 | 58A ST23371 | D 55 x 35 | . | 0.089 | 0.542 | 0.303 | 0.43 | 0.05 | 0.043 | 10.45 | 0.123 | 0.221 | . | . | 0.031 | . | 0.041 | . |
| 2 | 58A AC18022 | D 45 x 35 | . | 0.183 | 0.526 | 0.036 | 0.303 | . | . | 12.687 | 0.119 | 0.059 | . | . | . | . | . | . |
| 1 | 58A ST37070 | D 45 x 25 | . | 0.048 | 0.505 | 0.021 | 0.07 | 0.133 | 0.0052 | 0.491 | (0.138) | 1.5 | . | 0.032 | . | . | . | . |
| 1 | 58A ZB23010 | D 50 x 30 | 0.0016 | 0.0017 | 0.505 | 0.0092 | 0.0027 | 0.0041 | <0.0008 | 10.76 | 0.013 | 0.003 | . | . | 0.0003 | 0.021 | . | . |

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Be | Ga | Sn | V | Zr | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|----|---|----|-------|

Mg/Mn, Mg/Si and Mg/Zn

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Be | Sn | V | Zr | Other |
|---|----------------|-------------|--------|--------|-------|-------|---------|----------|--------|-------|-------|--------|---------|--------|--------|--------|---------------------------------|
| 1 | 58A BY23008 | D 55 x 40 | 0.038 | 0.041 | 0.169 | 9.3 | 0.6 | 0.076 | . | 0.161 | 0.099 | 0.147 | 0.002 | . | . | . | Sb: 0.017 |
| 1 | 58A ST53230 | D -55 x 30 | . | 0.066 | 0.341 | 8.21 | 0.63 | 0.092 | . | 0.293 | 0.121 | 0.143 | 0.007 | . | . | . | Sb: 0.019 |
| 1 | 58A ST53240 | D -55 x 30 | . | 0.046 | 0.454 | 6.78 | 0.808 | 0.058 | . | 0.424 | 0.162 | 0.204 | 0.0045 | . | . | . | Sb: 0.0044 |
| 1 | 58A BY4545964 | D 55 x 35 | 0.022 | 0.033 | 0.248 | 6.62 | 0.74 | 0.034 | . | 0.187 | 0.021 | 0.111 | 0.0015 | . | . | . | no center |
| 1 | 58A BY23007 | D 55 x 40 | 0.037 | 0.085 | 0.219 | 6.44 | 0.64 | 0.042 | . | 0.176 | 0.086 | 0.142 | 0.002 | . | . | . | Na: 0.00031 |
| 1 | 58A ST17330a | D -55 x 30 | 0.14 | 0.123 | 0.468 | 6.34 | 0.52 | 0.088 | . | 0.375 | 0.111 | 0.156 | 0.0068 | . | . | . | |
| 1 | 58A ST35020 | D -55 x 30 | 0.127 | 0.051 | 0.273 | 6.28 | 0.849 | 0.014 | . | 0.206 | 0.062 | 0.029 | 0.0012 | . | . | 0.162 | B: 0.002 Sc: 0.103 |
| 1 | 58A ZB23060 | D 40 x 30 | 0.027 | 0.013 | 0.208 | 6.19 | 0.725 | 0.0026 | . | 0.173 | 0.069 | 0.093 | . | . | 0.004 | . | |
| 1 | 58A ZB23068 | D 40 x 30 | 0.05 | 0.019 | 0.22 | 5.91 | 0.642 | 0.003 | . | 0.236 | 0.108 | 0.098 | . | . | 0.004 | . | |
| 1 | 58A ZB23067 | D 40 x 30 | 0.085 | 0.026 | 0.24 | 5.57 | 0.555 | 0.0035 | . | 0.349 | 0.11 | 0.049 | . | . | 0.0042 | . | |
| 1 | 58A ZB23061 | D 40 x 30 | 0.146 | 0.04 | 0.284 | 4.9 | 0.515 | 0.004 | . | 0.551 | 0.08 | 0.08 | . | . | 0.0045 | . | |
| 1 | 58A BY23003 | D 55 x 40 | 0.174 | 0.115 | 0.237 | 4.45 | 0.69 | 0.035 | . | 0.233 | 0.101 | 0.157 | 0.00053 | . | . | . | Na: 0.00031 |
| 1 | 58A ZB23066 | D 40 x 30 | 0.26 | 0.057 | 0.362 | 4.18 | 0.471 | 0.0053 | . | 0.877 | 0.048 | 0.103 | . | . | 0.005 | . | |
| 1 | 58A BY23005 | D 55 x 40 | 0.052 | 0.058 | 0.317 | 3.48 | 0.368 | 0.047 | . | 0.548 | 0.095 | 0.124 | . | . | . | . | |
| 1 | 58A BY4545962 | D 55 x 35 | 0.066 | 0.083 | 0.392 | 3.41 | 0.417 | 0.076 | . | 0.587 | 0.1 | 0.031 | 0.00016 | . | . | . | no center |
| 1 | 58A ST23360 | D 55 x 30 | 0.118 | 0.159 | 0.496 | 3.21 | 0.507 | 0.054 | . | 0.621 | 0.154 | 0.144 | . | . | . | . | Na: 0.0022 |
| 3 | 58A AC13362 | D 40 x 35 | 0.15 | 0.15 | 0.41 | 3.04 | 0.61 | 0.14 | 0.16 | 1.0 | 0.21 | 0.36 | . | 0.14 | . | . | Cd: 0.028 |
| 1 | 58A ST65520 | D -55 x 30 | 0.189 | 0.133 | 0.185 | 2.43 | 0.355 | (0.042) | . | 0.015 | 0.075 | 4.15 | . | . | . | 0.092 | |
| 1 | 58A ST47250 | D -55 x 30 | 0.093 | 0.337 | 0.073 | 2.28 | 0.114 | 0.076 | . | 0.194 | 0.103 | 6.34 | . | . | . | 0.257 | |
| 3 | 58A AC13361 | D 40 x 35 | 0.21 | 0.22 | 0.14 | 1.89 | 0.81 | 0.22 | 0.22 | 1.49 | 0.26 | 0.42 | . | 0.18 | . | . | Cd: 0.049 |
| 1 | 58A BY23020 | D 45 x 35 | . | 0.075 | . | 1.85 | (0.316) | 0.049 | 0.03 | 11.54 | 0.097 | 0.27 | . | 0.038 | . | . | Na: 0.0132 |
| 1 | 58A ST50150 | D -55 x 30 | . | 0.41 | 0.082 | 1.55 | 0.092 | 1.58 | 0.0025 | 8.69 | 0.021 | 0.252 | . | 0.019 | . | . | |
| 1 | 58A BY23023 | D 55 x 40 | 0.154 | 0.154 | 0.271 | 1.51 | 0.356 | 0.051 | . | 0.269 | 0.123 | 4.89 | . | . | 0.085 | 0.191 | |
| 1 | 58A ZH2060 | D 60 x 30 | 0.0052 | 0.0092 | 0.09 | 1.51 | 0.021 | (0.0016) | . | 1.05 | 0.011 | 0.022 | . | . | . | . | |
| 1 | 58A ST23364 | D 55 x 30 | . | 0.198 | 0.479 | 1.25 | 0.96 | 0.05 | 0.012 | 0.195 | 0.021 | 0.172 | . | . | 0.075 | . | Cd: 0.0036 Ga: 0.056 |
| 1 | 58A ZH2050 | D 60 x 30 | 0.011 | 0.02 | 0.155 | 1.23 | 0.105 | (0.0022) | . | 0.785 | 0.053 | 0.071 | . | . | . | . | |
| 1 | 58A ST34210c | D -55 x 30 | 0.085 | 0.04 | 0.206 | 1.17 | 0.864 | 0.059 | . | 0.541 | 0.114 | 0.297 | . | . | . | . | |
| 1 | 58A ST23386 | D 55 x 35 | 0.114 | 0.045 | 0.206 | 1.07 | 0.772 | 0.055 | . | 1.09 | 0.05 | 0.123 | . | . | . | . | |
| 1 | 58A AlZnInSet3 | D 36 x 40 | . | 0.0072 | 0.123 | 1.05 | . | . | . | 0.138 | 0.03 | 6.03 | . | . | . | . | |
| 1 | 58A BY5887965 | D 50 x 50 | 0.211 | 0.101 | 0.47 | 0.99 | 0.625 | 0.022 | . | 0.49 | 0.172 | 6.99 | 0.0083 | . | . | 0.069 | |
| 1 | 58A ZH2040 | D 60 x 30 | 0.031 | 0.101 | 0.265 | 0.871 | 0.207 | (0.0020) | . | 0.586 | 0.034 | 0.048 | . | . | . | . | |
| 1 | 58A ZB23021 | D 60 x 30 | 0.116 | 0.111 | 0.185 | 0.863 | 0.581 | 0.103 | 0.05 | 12.49 | 0.184 | 0.204 | 0.05 | 0.052 | . | 0.038 | Ga: 0.013, Sb: 0.036, Sr: 0.017 |
| 2 | HRT AL2017 | D 40 x 20 | 0.075 | 0.42 | 0.55 | 0.73 | 0.72 | . | 0.29 | 0.97 | 0.037 | 0.16 | . | 0.005 | . | . | Bi: 0.56 |
| 2 | 58A AC23024 | D 40 x 35 | 0.124 | 0.315 | 0.134 | 0.717 | 0.717 | 0.205 | 0.117 | 5.49 | 0.25 | 0.399 | 0.081 | 0.064 | . | 0.229 | |
| 1 | 58A ST29210c | D -55 x 30 | 0.084 | 0.189 | 0.132 | 0.701 | 0.15 | 0.141 | . | 0.361 | 0.07 | 6.49 | . | . | . | 0.237 | |
| 1 | 58A BY23010 | D 45 x 35 | 0.161 | 0.331 | 0.28 | 0.699 | 0.06 | 0.19 | 0.064 | 7.58 | 0.051 | 0.053 | . | 0.0087 | . | . | Na: 0.004 |
| 1 | 58A ST34220e | D -55 x 30 | 0.164 | 0.231 | 0.394 | 0.643 | 0.539 | 0.042 | . | 0.992 | 0.053 | 0.218 | . | . | . | . | |
| 1 | 58A SY23015 | D 50 x 35 | . | 0.021 | 0.112 | 0.64 | 0.0111 | 0.0034 | . | 5.15 | 0.088 | 1.52 | . | . | 0.013 | . | Sb: 0.14 |
| 1 | 58A AlZnInSet2 | D 36 x 40 | . | 0.0041 | 0.099 | 0.635 | . | . | . | 0.086 | 0.02 | 3.46 | . | 0.05 | . | . | Cd: 0.013 |
| 1 | 58A ZB23047 | D 50 x 30 | 0.001 | 0.0085 | 0.117 | 0.605 | 0.014 | 0.0059 | 0.0014 | 0.616 | 0.03 | 0.0029 | . | . | 0.027 | . | P: 0.002 |
| 1 | 58A SY23014 | D 50 x 35 | . | 0.005 | 0.124 | 0.6 | 0.0025 | 0.0028 | . | 7.27 | 0.139 | 0.0048 | . | . | 0.0106 | 0.0013 | Ca: 0.015 Ga: 0.011 |
| 1 | 58A ST23369 | D 55 x 35 | . | 0.092 | 0.184 | 0.59 | 0.104 | 0.046 | 0.061 | 7.02 | 0.15 | 0.054 | . | 0.012 | . | 0.042 | |
| 1 | 58A ZB23018 * | D 60 x 20 | 0.108 | 0.275 | 0.483 | 0.578 | 0.307 | 0.091 | 0.138 | 7.82 | 0.184 | 0.338 | 0.21 | 0.057 | . | 0.065 | * |
| 2 | 58A AC23025 | D 40 x 35 | 0.082 | 0.231 | 0.21 | 0.544 | 0.52 | 0.134 | 0.081 | 6.68 | 0.21 | 0.315 | 0.063 | 0.047 | . | 0.171 | |
| 1 | 58A ZB23032 | D 50 x 30 | 0.015 | 0.243 | 0.284 | 0.541 | 0.053 | 0.011 | 0.0033 | 9.38 | 0.05 | 0.072 | . | . | 0.019 | 0.002 | |
| 1 | 58A BY3166932 | D 42 x 32mm | 0.198 | 0.397 | 0.433 | 0.522 | 0.183 | 0.021 | . | 0.727 | 0.126 | 0.05 | . | . | . | . | |
| 1 | 58A ST23368 | D 55 x 35 | 0.016 | 0.101 | 0.133 | 0.522 | 0.079 | 0.021 | . | 1.16 | 0.021 | 0.029 | . | . | . | . | P: 0.0031 |

* 58A ZB23018 also contains Ca: 0.0053, Cd: 0.12, Ga: 0.2, P: 0.0035, Sr: 0.013, V: 0.157

Mn Alloys

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Sn | Zr | Other | |
|---|---------------|-------------|--------|--------|-------|-------|---------|--------|--------|---------|---------|--------|-------|--------|-----------|--|
| 1 | 58A ST23405 | D 62 x 30 | . | 0.0066 | 0.131 | 0.004 | 2.51 | 0.0043 | 0.0016 | 0.051 | 0.0055 | 0.0083 | . | . | | |
| 1 | 58A ST23374 | D 55 x 30 | . | 0.046 | 0.239 | 0.07 | 1.99 | 0.104 | 0.016 | 0.142 | 0.09 | 0.09 | . | . | | |
| 2 | 58A AC1721 | D 50 x 30 | 0.0033 | 0.02 | 0.216 | 0.375 | 1.83 | . | . | 0.108 | 0.012 | 0.308 | . | 0.178 | | |
| 2 | 58A AC1722 | D 50 x 30 | 0.0162 | 0.063 | 0.36 | 0.215 | 1.54 | . | . | 0.26 | 0.053 | 0.17 | . | 0.087 | | |
| 1 | 58A ST23373 | D 55 x 30 | . | 0.125 | 0.346 | 0.046 | 1.54 | 0.073 | 0.0065 | 0.328 | 0.062 | 0.044 | . | . | | |
| 1 | 58A ST29250c | D -55 x 30 | 0.349 | 0.048 | 0.437 | 0.233 | 0.821 | 0.188 | . | 0.048 | 0.0059 | 8.32 | . | 0.0084 | | |
| 1 | 58A SY23003 | D 50 x 30 | 0.011 | 0.17 | 0.162 | 0.297 | 0.691 | 0.0042 | 0.048 | 6.67 | 0.031 | 0.156 | 0.027 | 0.035 | Be: 0.019 | |
| 1 | 58A ZB23030 | D 50 x 30 | 0.12 | 0.498 | 0.261 | 0.073 | (0.536) | 0.112 | 0.137 | (17.35) | (0.017) | 0.132 | 0.017 | (0.25) | V: 0.0098 | |
| 1 | 58A BY3166935 | D 42 x 32mm | 0.06 | 0.049 | 0.081 | 0.151 | 0.517 | 0.072 | . | 1.36 | 0.017 | 0.178 | . | . | . | |

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | Zn | Sn | Zr | Other |
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|-------|
|---|--------|------|----|----|----|----|----|----|----|----|----|----|----|----|-------|

Si and Zn Alloys

| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | <u>Si</u> | Ti | Zn | B | Be | Ca | Cd | Ga | P | Sb | Sn | Sr | V | Zr | |
|---|----------------|--------------|---------|--------|-------|--------|--------|--------|----------|-----------|--------|-----------|--------|----------|--------|--------|--------|--------|--------|----------|--------|--------|--------------------|-----------|
| 2 | 58A AC18021 | D 45 x 35 | . | 0.117 | 0.433 | . | 0.115 | . | . | 13.541 | 0.06 | 0.017 | . | . | . | . | . | . | . | . | . | . | . | |
| 2 | 58A AC23050-6 | D 45 x 35 | . | 0.013 | 0.07 | 0.051 | 0.01 | 0.0081 | 0.012 | 11.98 | 0.051 | 0.025 | . | . | . | . | . | . | . | 0 | . | . | 0.014 | |
| 2 | 58A AC23050-5 | D 45 x 35 | 0.107 | 0.048 | 0.23 | 0.105 | 0.051 | 0.039 | 0.053 | 11.34 | 0.109 | 0.071 | . | . | . | . | . | . | . | 0.013 | . | . | 0.036 | |
| 1 | 58A SY23009 | D 50 x 35 | . | 0.0028 | 0.23 | 0.0025 | 0.005 | 0.004 | . | 11.0 | 0.0085 | 0.0088 | . | . | 0.014 | . | 0.0142 | . | . | . | 0.04 | 0.0122 | . | |
| 2 | 58A AC14045 | D 45 x 35 | 0.011 | 0.0054 | 0.16 | 0.094 | 0.11 | 0.0042 | 0.0021 | 10.99 | 0.25 | 0.007 | . | (0.0024) | . | . | . | . | . | 0.002 | . | . | 0.0094 | |
| 2 | 58A AC23043 | D 40 x 35 | 0.0091 | 0.059 | 0.465 | 0.114 | 0.121 | 0.052 | 0.01 | 8.67 | 0.072 | 0.122 | . | 0.01 | . | . | . | . | . | 0.013 | . | . | 0.09 | |
| 1 | 58A SY23010 | D 50 x 35 | . | 0.0016 | 0.22 | 0.289 | 0.409 | 0.0026 | . | 8.52 | 0.038 | 0.0074 | . | . | 0.031 | . | 0.014 | . | <0.001 | . | 0.034 | . | 0.0023 | |
| 2 | 58A AC23023 | D 50 x 30 | 0.0048 | 0.0052 | 0.054 | 0.1 | 0.0055 | 0.0042 | (0.0052) | 8.52 | 0.0053 | (0.0049) | . | . | 0.03 | . | . | . | . | (0.0062) | 0.0058 | . | . | |
| 1 | 58A ZB23012 | D 50 x 30 | <0.0010 | 0.0024 | 0.112 | 0.334 | 0.276 | 0.0042 | <0.0010 | 8.28 | 0.013 | 0.115 | . | . | . | . | . | . | . | . | . | 0.022 | . | |
| 2 | 58A AC15055X | D 40 x 35 | 0.0088 | 0.114 | 0.114 | 0.066 | 0.058 | 0.013 | 0.01 | 8.25 | 0.109 | 0.055 | . | . | . | . | . | . | . | 0.0094 | . | . | 0.013 | |
| 1 | 58A SY23004 | D 50 x 30 | 0.11 | 0.122 | 0.455 | 0.089 | 0.059 | 0.062 | 0.029 | 7.75 | 0.169 | 0.09 | . | 0.0027 | . | . | . | . | . | 0.013 | . | . | 0.119 | no center |
| 2 | 58A AC23022 | D 50 x 30 | 0.01 | 0.01 | 0.1 | 0.19 | 0.01 | 0.0084 | 0.01 | 7.7 | 0.0068 | 0.012 | . | . | 0.018 | . | . | . | . | 0.01 | 0.011 | . | . | |
| 2 | 58A AC23026 | D 40 x 35 | 0.04 | 0.133 | 0.353 | 0.332 | 0.321 | 0.094 | 0.037 | 7.61 | 0.118 | 0.214 | . | 0.036 | . | . | . | . | . | 0.032 | . | . | 0.126 | |
| 2 | 58A AC15054X | D 40 x 35 | 0.02 | 0.358 | 0.262 | 0.17 | 0.199 | 0.052 | 0.022 | 7.58 | 0.148 | 0.12 | . | . | . | . | . | . | . | 0.022 | . | . | 0.093 | |
| 1 | 58A ZB23014 | D 60 x 20 | 0.019 | 0.051 | 0.214 | 0.288 | 0.121 | 0.045 | 0.044 | 7.22 | 0.043 | 0.09 | 0.0006 | 0.01 | 0.0006 | 0.0061 | 0.059 | 0.0062 | . | 0.084 | 0.016 | 0.032 | 0.006 | |
| 2 | 58A AC23040 | D 45 x 35 | 0.051 | 0.051 | 0.15 | 0.29 | 0.055 | 0.047 | 0.052 | 7.07 | 0.057 | 0.052 | . | . | 0.013 | . | . | . | . | 0.05 | 0.018 | . | . | |
| 1 | 58A ST23370 | D 55 x 35 | 0.038 | 0.09 | 0.171 | 0.392 | 0.046 | 0.04 | 0.051 | 7.0 | 0.142 | 0.077 | . | 0.005 | . | . | . | . | . | 0.034 | . | . | 0.042 | |
| 1 | 58A NK23001 | D 50 x 30 | . | 0.21 | 0.459 | 0.43 | 0.335 | . | 0.056 | 7.18 | 0.123 | 0.179 | . | . | . | . | . | . | . | 0.011 | . | . | 0.117 | |
| 2 | 58A AC23021 | D 50 x 30 | 0.051 | 0.048 | 0.13 | 0.29 | 0.055 | 0.043 | 0.052 | 6.95 | 0.055 | 0.057 | . | . | 0.013 | . | . | . | . | 0.049 | 0.026 | . | . | |
| 1 | 58A ZB23017 | D 60 x 20/30 | 0.096 | 0.191 | 0.373 | 0.497 | 0.207 | 0.067 | 0.101 | 6.26 | 0.153 | 0.148 | . | 0.12 | 0.017 | 0.058 | 0.096 | 0.0033 | . | 0.036 | 0.034 | 0.175 | 0.072 30mm is last | |
| 2 | 58A AC23020 | D 50 x 30 | 0.1 | 0.1 | 0.31 | 0.38 | 0.11 | 0.1 | 0.1 | 6.15 | 0.12 | 0.1 | . | . | 0.0088 | . | . | . | . | 0.1 | 0.042 | . | . | |
| 1 | 58A ZB23013 | D 60 x 20 | 0.0051 | 0.01 | 0.026 | 0.196 | 0.085 | 0.0053 | 0.0053 | 5.56 | 0.024 | 0.0064 | . | 0.0061 | 0.0027 | 0.0013 | 0.0054 | 0.0018 | . | 0.0058 | 0.0064 | 0.0049 | 0.0047 | |
| 2 | 58A AC23019 | D 50 x 30 | 0.14 | 0.2 | 0.45 | 0.45 | 0.25 | 0.14 | 0.14 | 5.32 | 0.15 | 0.25 | . | . | 0.0052 | . | . | . | . | 0.14 | 0.063 | . | . | |
| 1 | 58A AlZnInSet4 | D 36 x 40 | . | 0.016 | 0.182 | . | . | . | . | 0.185 | 0.057 | 7.08 | . | . | . | 0.025 | . | . | . | 0.07 | . | . | . | |
| 1 | 58A AlZnInSet1 | D 36 x 40 | . | 0.0026 | 0.037 | 0.417 | . | . | . | 0.032 | 0.0092 | 2.13 | . | . | . | 0.004 | . | . | . | 0.027 | . | . | . | |
| # | Number | Unit | Cr | Cu | Fe | Mg | Mn | Ni | Pb | Si | Ti | <u>Zn</u> | B | Be | Ca | Cd | Ga | P | Sb | Sn | Sr | V | Zr | |