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CRM NICKEL SET

available in SET/5 only rods 6 mm Ø x 100 mm

Number	Co	Cu	Fe	Mg	Mn	Ni	Si
IMN 6-1	0.045	0.21	0.096	0.22	0.0063	Rem	0.0043
IMN 6-2	0.091	0.26	0.33	0.0061	0.18	Rem	0.0074
IMN 6-3	0.19	0.044	0.050	0.012	0.015	Rem	0.18
IMN 6-4	0.40	0.10	0.023	0.075	0.074	Rem	0.06
IMN 6-5	0.71	0.0094	0.011	0.0014	0.0018	Rem	0.0012

CRM ISO 17025 NICKEL

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

BS 200A: 38 mm Ø x 7 or 19 mm

others: 38 mm Ø x 15 mm

Number	Al	As	B	Bi*	C	Ca	Co	Cr	Cu	Fe	Mg	Mn	Mo	N	Nb	Ni
BS 200-1	0.0048	0.0010	0.0033	.	0.0413	0.00024	0.089	0.0011	0.0077	0.046	0.0307	0.111	0.0004	(0.0002)	0.0004	99.60
BS 200A	0.0281	0.0015	0.0044	.	0.078	0.0003	0.0564	0.0006	0.0038	0.074	0.0131	0.151	0.0004	0.0004	0.0004	99.54
BS 200-3	0.0068	0.0015	0.0037	(0.2)	0.0145	0.0003	0.103	0.0091	0.108	0.138	0.0240	0.157	0.0004	(0.0002)	0.0004	99.4
BS 200-2	0.0041	0.0012	0.0031	.	0.050	0.0004	0.104	0.0094	0.053	0.115	0.0368	0.244	0.0005	0.0003	0.0009	99.31
BS 200-4	0.0057	0.0014	0.0037	.	0.107	0.00028	0.0911	0.132	0.0482	0.297	0.0312	0.310	0.0013	0.00031	0.0010	98.9

Number	O	P	Pb	S	Sb*	Si	Sn	Ta	Te*	Ti	V	W	Zn*	Zr
BS 200-1	0.0015	0.0009	0.0010	0.0011	(0.2)	0.037	(0.0001)	(0.0004)	.	0.0209	0.0008	0.00016	.	(0.0002)
BS 200A	0.0013	0.0007	(0.00005)	0.0037	(0.2)	0.0051	(0.0001)	(0.0003)	.	0.0427	0.0006	0.0005	.	(0.0004) last
BS 200-3	0.0026	0.0015	0.0008	0.0032	(0.4)	0.0110	0.0003	(0.0001)	(0.4)	0.0235	0.0009	(0.0004)	(2)	(0.0003)
BS 200-2	0.0025	0.0020	0.0006	0.0068	(0.4)	0.060	(0.0002)	(0.0002)	.	0.0197	0.0014	(0.0003)	.	(0.0003)
BS 200-4	0.0015	0.0023	0.00087	0.0076	0.4	0.101	0.0020	0.0003	.	0.0191	0.0024	0.00095	.	(0.0004)

NICKEL

= class, where 1 = CRM and 2 = RM

* center of IARM 189A has a few mm crack, not intended for XRF

31 mm Ø x 2 or 18 mm

#	Number	Ag	Al	As	Bi	C	Cd	Co	Cr	Cu	Fe	Mn	N	Ni	O
1	IARM 50C	.	(0.004)	.	B:0.0027	0.015	.	(0.011)	(0.005)	0.028	0.084	0.22	trace	99.4	.
2	IARM 190A	0.00109	0.0050	0.0028	0.00111	0.0022	0.0005	0.0008	(0.0001)	0.0017	0.0099	0.00018	trace	Rem	.
2	IARM 189A *	0.00024	0.0044	0.00007	0.00026	0.0023	0.00008	0.00031	(0.0010)	0.00090	0.0038	0.00019	trace	Rem	.
2	IARM 188A	0.00011	0.0024	0.00007	0.00009	0.0022	0.00002	0.00017	(0.0006)	0.00018	0.0019	0.00023	trace	Rem	.
2	IARM 191A	0.00001	0.00015	0.0013	<0.00001	0.0014	<0.0001	0.0545	0.00021	0.00042	0.00079	0.00031	trace	Rem	.
2	IARM 187A	0.00001	0.0011	0.00001	<0.00001	0.0013	(<0.00001)	0.00010	(0.0003)	0.00022	0.0019	0.00030	trace	Rem	.

Number	P	Pb	S	Sb	Se	Si	Sn	Te	Ti	Tl	V	W	Zn	Zr
IARM 50C	(0.0014)	.	0.0012	.	.	0.031	.	.	0.026	.	.	Mg:0.005	.	.
IARM 190A	0.0034	0.00093	0.00033	0.0011	0.00065	0.0028	0.00062	0.00089	(0.0006)	0.00058	.	.	0.00081	.
IARM 189A *	0.00037	0.00029	0.00018	0.00039	0.00021	0.0019	0.00022	0.00017	(0.0003)	0.00023	.	.	0.00028	.
IARM 188A	0.00014	0.00010	0.00018	0.00011	0.00007	0.0018	0.00011	0.00008	(0.0002)	(0.00009)	.	.	0.00023	.
IARM 191A	<0.00010	0.00003	0.00021	<0.00005	0.00019	(0.0005)	0.00004	<0.00001	(<0.0001)	<0.00002	.	.	0.00019	.
IARM 187A	<0.00010	0.000015	0.00019	<0.00005	<0.00001	(0.0018)	0.00004	<0.00001	(0.0003)	<0.00002	.	.	<0.00005	.

CRM Co/Cr NICKEL ALLOY TYPE IN 100

wrought analysis listed in mass %

Number	Co	Cr	Al	Mo	Ti	V	B	C	Zr	Units
SS 346A	(15)	(10)	(5.5)	(3)	(5)	(1)	.	(0.15)	.	38 mm Ø x 13 mm
SS 345	14.70	9.93	5.58	3.01	(5)	1.00	0.019	0.153	0.044	35 mm Ø x 13 mm

continued analysis listed in mg/kg

Number	Ag	As	Bi	Ca	Cd	Ga	In	Mg	Pb	Sb	Se	Sn	Te	Tl	Zn
SS 346A	42	51	10	(20)	0.4	(50)	(20)	130	22	45	6	93	9	(2)	29
SS 345	<0.2	(2)	<0.2	(<5)	<0.1	8	.	5	0.2	<2	<0.5	6	<0.2	<0.2	<0.5

CRM CHROMIUM NICKEL ALLOY

219X: ~40 mm Ø x ~15 mm

IARM: 31 mm Ø x 2 or 18 mm

VS: ~40 mm Ø x ~28 mm

Number	Cr	Al	C	Co	Cu	Fe	Mn	Mo	N	Nb	Ni	P	S	Si	Ti	V
IARM 372A	28.3	3.28	0.030	0.009	(0.004)	3.12	0.285	(0.006)	(0.011)	0.71	63.6	(0.003)	0.0016	0.020	0.486	(0.008)
VS NG4/3	18.5	0.38	0.011	.	0.043	0.93	0.40	0.120	.	0.62	.	(0.004)	0.0017	0.38	0.86	0.019
VS NG3/3	17.8	0.116	0.009	.	0.094	1.86	0.28	0.100	.	(0.1)	.	(0.004)	0.0020	1.00	1.18	0.059
VS NG1/3	17.3	1.76	0.051	.	0.068	1.32	1.23	0.16	.	0.41	.	(0.004)	0.0014	0.25	0.31	0.46
VS NG5/3	17.3	0.93	0.013	.	0.243	2.10	0.23	0.36	.	(0.1)	.	(0.004)	0.0016	0.65	0.46	0.30
VS NG6/3	15.4	0.30	0.026	.	0.092	2.77	0.23	2.00	.	1.53	.	(0.004)	(0.002)	0.25	0.47	0.97
VS NG7/3	15.3	0.14	0.027	.	0.151	3.40	0.42	0.90	.	1.08	.	(0.004)	0.0022	0.37	0.214	1.66

Co/Cr and Cr/Co NICKEL ALLOYS

= class, where 1 = CRM and 2 = RM

#	Number	Cr	Co	Al	Fe	Mo	Ta	Ti	W	C	Cu	Mn	P	S	Si	V
1	IARM 358A	24.6	20.1	1.33	0.122	0.310	.	1.36	(0.002)	0.026	(0.005)	0.259	(0.004)	0.0018	0.145	0.009
1	IMZ 186	23.14	Rem	0.28	0.10	.	3.78	0.19	7.17	0.59	.	.	.	.	.	.
2	BS 617	22.44	12.42	1.20	1.76	9.64	.	0.28	0.06	0.079	0.062	0.057	0.007	<0.001	0.14	0.022
1	IARM 272A	21.98	12.89	1.16	1.10	9.34	(0.01)	0.50	0.061	0.082	0.015	0.067	(0.003)	0.0002	0.07	(0.005)
1	IARM Ni617-18	21.9	11.81	1.08	1.45	9.33	.	0.32	(0.02)	0.079	(0.009)	0.24	(0.004)	(0.0007)	0.21	(0.006)
2	27X 14184F	21.8	10.5	0.02	0.40	10.7	.	0.02	.	.	0.09	0.40	.	.	0.41	.
1	BS 617A	21.5	12.37	1.10	1.53	9.27	<0.05	0.42	(0.018)	0.071	(0.005)	0.17	(0.003)	(0.0003)	0.16	(0.005)
2	27X 14188D	21.17	10.4	<0.01	0.44	10.3	.	0.03	.	.	(0.003)	0.30	.	.	0.33	.
1	IARM NiN155	20.9	19.2	0.153	31.4	2.87	.	0.0026	2.42	0.116	0.039	1.46	0.008	(0.0009)	0.55	0.0236
1	SRM 1775	20.472	33.352	(0.024)	0.91	9.508	.	0.730	(0.02)	(0.0051)	(0.0046)	0.0121	(0.0006)	0.0013	(0.02)	0.0095
2	27X 14387E	20.2	10.0	<0.005	1.11	10.8	.	<0.005	.	.	<0.005	0.27	.	.	0.28	.
1	IARM NiWasp18	19.7	13.13	1.36	0.69	4.28	(0.005)	3.01	0.030	0.038	0.009	0.022	0.0032	(0.0004)	0.028	(0.023)
1	24X 07001C	19.62	13.20	1.476	1.023	4.31	.	3.14	0.041	0.0360	0.0118	0.024	0.0023	0.0005	0.042	0.041
1	BS 199B	19.46	12.41	1.37	1.17	3.87	(0.001)	3.00	0.048	0.041	0.015	0.0240	0.0031	0.0005	0.034	0.071
1	SRM 1243	19.05	12.39	1.23	0.776	4.226	(0.0003)	3.054	0.0139	0.024	(0.0063)	0.00730	0.00317	0.00217	0.0192	0.1043
1	IARM 287A	18.47	16.99	3.02	0.086	3.51	0.010	3.02	0.013	0.079	(0.001)	(0.002)	(0.001)	0.0008	0.02	(0.004)
1	IMZ 183A	15.99	8.23	3.45	0.063	1.63	1.56	3.39	2.62	0.107	.	.	.	.	0.021	.
1	IMZ 184	14.16	14.32	4.37	.	4.30	.	3.43	.	0.086	.	.	(0.001)	.	(0.018)	.
1	IMZ 205	10.07	5.35	4.97	0.013	0.015	11.92	1.34	4.13	0.040	(0.0007)	0.0020	(0.0002)	(0.0003)	0.009	.
1	IMZ 185	9.91	4.47	5.56	(0.022)	3.92	.	2.73	5.12	0.152	.	.	.	.	.	.
1	IMZ 206	9.78	5.37	4.99	0.036	0.064	11.95	1.36	4.08	0.035	(0.0003)	(0.002)	0.0007	(0.0004)	0.028	.
1	IMZ 182	8.63	13.52	5.69	(0.04)	3.10	.	4.69	.	0.169	.	.	.	.	.	0.81
1	IMZ 180	7.98	9.95	6.00	0.073	5.96	4.26	1.02	(0.048)	0.107	.	.	(0.003)	.	(0.026)	.

note: IMZ samples are "slice of pie" shaped 1/4 sections of large cylinders

Number	B	Hf	Mg	N	Nb	Ni	O	Pb	Sn	Zr	Units
IARM 358A	(0.0011)	.	0.0019	0.0045	1.51	50.3	(0.001)	.	.	0.022	31 mm Ø x 2 or 18 mm
IMZ 186	(0.007)	.	.	.	.	10.22	.	.	.	0.40	1/4 of 78 mm Ø x 30 mm
BS 617	0.0020	.	(0.02)	0.0070	0.123	(51.6)	.	0.0001	.	.	1/4 of 100 mm Ø x ~15 mm
IARM 272A	0.003	.	(0.002)	0.0049	0.015	52.68	0.0007	.	(0.0003)	(0.002)	31 mm Ø x 2 mm
IARM Ni617-18	0.0023	.	(0.0011)	0.0082	0.197	53.3	(0.0010)	.	.	(0.06)	31 mm Ø x 2 or 18 mm
27X 14184F	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
BS 617A	0.0041	.	0.0010	0.0033	(0.02)	53.3	0.0008	(0.00008)	<0.005	<0.05	38 mm Ø x ~7 or 19+ mm
27X 14188D	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
IARM NiN155	0.0024	.	.	0.12	1.00	20.1	FULL ID# IS	IARM NiN155-18	.	.	38 mm Ø x ~2 or 19 mm
SRM 1775	0.0097	.	.	(0.002)	(0.03)	34.911	.	.	.	.	35 mm Ø x 12 mm
27X 14387E	.	.	.	.	.	.	.	.	.	.	40 mm Ø x 15 mm
IARM NiWasp18	0.0061	.	(0.0018)	0.0046	0.033	57.8	(0.0009)	.	.	0.058	31 mm Ø x 2 or 18 mm
24X 07001C	0.0062	.	.	.	0.050	56.92	.	.	.	0.060	~32 mm Ø x ~20 mm
BS 199B	0.0053	.	0.0032	0.0038	0.069	58.4	0.0006	.	0.0006	0.045	38 mm Ø x ~7 or 19+ mm
SRM 1243	0.00494	.	.	.	0.0286	58.782	.	.	.	0.053	34 mm Ø x 19 mm
IARM 287A	0.009	.	0.0023	0.0007	0.022	54.8	0.0005	(0.0001)	0.0002	0.008	31 mm Ø x 2 or 18 mm
IMZ 183A	0.0108	0.020	0.0013	.	0.747	.	.	.	.	0.033	1/4 of 88 mm Ø x 20 mm
IMZ 184	0.016	.	.	.	(0.032)	.	.	.	.	(0.012)	1/4 of 80 mm Ø x 30 mm
IMZ 205	(0.0006)	0.007	.	.	0.013	(62.44)	.	.	.	0.003	1/4 of 88 mm Ø x 20 mm
IMZ 185	0.015	.	(0.002)	.	.	.	.	.	.	(0.014)	1/4 of 64 mm Ø x 45 mm
IMZ 206	(0.001)	0.36	.	.	0.023	(62.24)	.	.	.	0.004	1/4 of 88 mm Ø x 20 mm
IMZ 182	0.013	.	.	.	.	.	.	.	.	0.031	1/4 of 64 mm Ø x 45 mm
IMZ 180	(0.017)	.	.	.	0.024	0.075	1/4 of 80 mm Ø x 30 mm

Number	B	Hf	Mg	N	Nb	Ni	O	Pb	Sn	Zr	Units
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Cr/Al NICKEL ALLOY

= class, where 1 = CRM and 2 = RM IMZ: 1/4 section of 90 mm Ø x 20 mm HRT: 27 mm Ø x 20 mm SS: 50 mm Ø x 13 mm

#	Number	Cr	Al	Co	Fe	Mo	Nb	Si	Ti	B	C	Mn	N	Ni	P	S	Zr
2	HRT Ni2017	19.34	1.43	0.018	0.59	.	0.34	0.17	2.66	0.0036	0.047	0.39	0.0091	74.93	0.003	0.002	.
1	SS 350	13.43	5.97	0.338	1.50	4.29	2.17	0.110	0.87	0.013	0.138	0.019	.	70.8	W:0.094	.	0.072
1	IMZ 203	11.80	6.13	(0.024)	0.032	4.32	2.04	(0.019)	0.62	0.0077	0.061	.	.	.	.	(0.0006)	0.059

Cr/Fe NICKEL ALLOY

= class, where 1 = CRM and 2 = RM underlined BS samples are ISO 17025 Accredited

#	Number	Cr	Fe	Ni	Al	C	Co	Cu	Mn	Mo	Nb	P	S	Si	Ti	V	W
1	IARM 357A	27.0	34.3	31.9	0.09	0.0199	0.17	0.81	1.63	3.48	0.089	0.013	0.0021	0.458	0.079	0.091	0.108
2	HRT Ni2021	25.0	9.79	62.0	2.24	0.179	0.0242	0.0079	0.082	(0.01)	0.0124	0.0056	(0.0009)	0.142	0.151	0.0312	(0.0434)
1	IARM 282A	24.6	35.7	37.1	0.085	0.054	0.12	0.0615	0.81	0.210	0.57	0.016	0.0003	0.63	0.019	0.052	0.043
1	SRM 1247	23.4	26.5	43.5	0.060	0.021	0.089	1.75	0.38	2.73	(0.46)	0.018	0.002	0.32	0.75	(0.048)	(0.005)
1	<u>BS 825F</u>	23.2	30.7	38.9	0.081	0.012	0.064	1.78	0.521	3.19	(0.02)	0.018	(0.005)	0.59	0.91	0.086	0.015
2	PV 204/1	22.49	30.35	39.46	.	0.017	.	1.93	0.773	3.27	.	0.014	(<0.01)	0.268	.	.	.
1	IARMNi825-18	22.4	29.5	40.8	0.11	(0.006)	0.55	1.81	0.49	2.80	0.31	0.013	.	0.17	0.96	0.047	0.230
2	HRT Ni2013	22.03	31.86	38.65	0.10	(0.018)	.	1.92	0.72	3.15	.	(0.013)	(0.004)	0.30	1.00	.	.
1	IARM NiX-18	22.0	19.2	46.9	0.24	0.080	1.43	0.046	0.215	8.6	(0.024)	0.0107	(0.0050)	0.49	(0.017)	(0.037)	0.55
1	219X 08825A	21.94	31.82	39.12	0.149	0.016	0.0646	1.87	0.499	3.01	(0.007)	0.0189	(0.0007)	0.232	1.192	0.038	.
1	<u>BS 825E</u>	21.87	31.45	39.92	0.080	0.010	0.26	1.72	0.51	2.74	0.19	0.015	0.0010	0.24	0.82	0.049	0.166
1	<u>BS 800B</u>	21.14	42.6	33.5	0.362	0.076	0.068	0.247	0.88	0.121	(0.023)	(0.014)	(0.005)	0.37	0.56	0.056	0.027
1	<u>BS 800A</u>	21.09	42.7	33.3	0.362	0.075	0.069	0.244	0.883	0.117	0.021	0.013	(0.0007)	0.361	0.526	0.058	(0.030)
2	BS 925	20.82	26.92	43.53	0.17	0.011	0.34	1.74	0.50	3.00	0.23	0.016	0.0020	0.11	2.20	0.03	0.47
1	IARM 328B	20.5	15.0	53.7	0.116	0.010	0.063	2.0	0.077	3.12	3.99	(0.005)	(0.0006)	(0.05)	1.53	(0.014)	(0.04)
1	<u>BS 189A</u>	20.4	[48.1]	23.8	0.0129	0.0147	0.100	0.184	0.639	6.04	(0.13)	0.019	(0.001)	0.30	0.0065	0.054	0.037
1	IARMNi256Mo-18	20.3	44.0	25.5	0.17	0.0182	(0.02)	1.98	0.83	6.63	(0.010)	(0.004)	0.0011	0.41	(0.006)	(0.009)	(0.010)
1	IARM 347A	20.14	47.4	24.88	0.016	0.023	0.083	1.34	1.24	4.16	(0.01)	0.023	0.0009	0.56	0.007	0.078	0.020
1	IARMNi800-19	20.13	47.04	30.9	0.44	0.079	(0.0027)	(0.0039)	0.662	(0.006)	.	0.0021	0.0016	0.34	0.497	0.0083	.
1	SRM 1246	20.1	46.2	30.8	0.30	0.082	0.076	0.49	0.91	0.36	(0.09)	0.018	0.001	0.18	0.32	(0.040)	(<0.004)
1	IARM 25D	20.0	38.7	32.6	0.015	0.028	0.14	3.46	1.14	2.1	0.66	0.019	0.0013	0.70	0.009	0.089	0.13
1	<u>BS 187D</u>	19.91	[39.6]	32.3	0.0164	0.0337	0.089	3.52	0.938	2.17	0.621	0.0155	0.0021	0.669	0.0027	0.073	0.086
1	<u>BS 925A</u>	19.9	26.8	44.9	0.20	(0.010)	0.23	1.96	0.137	3.11	0.291	(0.007)	0.0010	(0.07)	2.23	(0.037)	0.039
1	<u>BS 187B</u>	19.8	39.2	33.8	0.0033	0.013	0.191	3.13	0.77	2.07	0.335	0.021	0.0021	0.63	0.0028	0.086	0.047
1	23X 08811A	19.72	45.81	31.31	0.453	0.068	0.082	0.247	1.009	0.242	0.009	0.0212	(0.0004)	0.263	0.54	0.060	0.027
IARM Ni800-18	19.38	47.2	31.3	0.421	0.070	0.023	0.068	0.61	0.033	CRM	0.013	0.0012	0.42	0.520	0.028	CRM	
2	HRT Ni2018	18.64	18.49	52.93	0.57	0.017	(0.018)	0.04	0.06	2.93	5.03	(0.004)	(0.003)	0.12	1.00	.	.
1	IARM 7C	18.4	43.5	34.9	0.017	0.064	0.041	0.031	1.32	0.095	0.189	0.014	0.0004	1.21	0.022	0.060	(0.02)
IARM NiH214-18	16.24	3.48	75.6	4.28	0.036	(0.007)	0.0011	0.185	(0.004)	(0.003)	(0.0017)	(0.0004)	0.020	(0.003)	(0.003)	(0.02)	
1	SS 387/1	11.35	38.4	41.2	0.24	0.033	0.020	0.0076	0.025	5.83	.	0.0033	0.0028	0.06	3.00	.	.
IARM Ni244H-18	6.9	39.9	41.1	0.23	0.052	(0.005)	0.013	10.9	(0.003)	0.70	(0.003)	0.0038	0.16	0.20	(0.004)	.	

Number	As	B	Ca	Ga	Mg	N	O	Pb	Sb	Sn	Ta	Zr	Type	Units	mmØ x mmH	
IARM 357A	.	(0.0014)	.	.	(0.005)	(0.011)	(0.005)	.	.	.	.	.	028	31 x 2	or 18
HRT Ni2021	.	0.0036	.	.	.	0.0171	.	Y:(0.069)	.	.	(0.0086)	0.0682	6025HT	35 x 20		
IARM 282A	(0.003)	0.005	<0.003	.	(0.004)	0.207	0.0023	(0.001)	(0.0004)	(0.003)	(0.005)	(0.002)	HR-120	38 x 2	or 18	
SRM 1247	(0.003)	0.002	.	(0.011)	.	(0.017)	(0.005)	(<0.0001)	.	.	(<0.001)	.	825	35 x 19		
<u>BS 825F</u>	(0.004)	0.0023	(0.001)	.	0.0013	0.0085	0.0009	(0.0008)	.	(0.0036)	.	(0.002)	825	38 x ~7	or 19+	
PV 204/1	.	.	.	.	.	.	.	.	.	.	.	.	825	40 x 25	
IARMNi825-18	.	0.0023	CRM	.	.	0.0093	(0.0020)	.	.	0.0023	(0.0011)	(0.002)	825	31 x 2	or 18	
HRT Ni2013	.	.	.	.	.	.	.	.	.	.	.	.	825	30 x 20	
IARM NiX-18	.	0.0038	.	.	0.0030	0.042	(0.0012)	.	.	.	.	.	HastX	31 x 2	or 18
219X 08825A	.	0.0028	.	.	(0.003)	.	.	.	.	.	.	0.0021	825	~40 x ~15	
<u>BS 825E</u>	.	0.0025	(0.0004)	.	.	0.0105	(0.004)	.	.	.	.	last	825	38 x ~7	or ~13
<u>BS 800B</u>	0.0025	0.0022	(0.010)	.	0.0027	0.0129	(0.0012)	<0.001	0.0006	0.0042	.	0.0009	800	38 x ~7	or 19+	
<u>BS 800A</u>	(0.002)	0.0018	(0.000006)	.	0.0022	0.0126	0.0014	(0.001)	(0.0005)	0.0041	(0.005)	(0.002)	800	38 x ~7	or 19+	
BS 925	.	0.002	.	.	.	0.0042	(0.0075)	.	.	(0.002)	.	.	925	38 x ~7	to 19	
IARM 328B	.	(0.0010)	.	.	.	(0.006)	last	945X	31 x 2	or 18
<u>BS 189A</u>	0.0039	(0.0002)	(0.0004)	.	.	0.198	0.0024	.	.	0.0035	.	(0.001)	AL6XN	38 x ~7	or 19+	
IARMNi256Mo-18	.	0.0009	0.0014	.	.	0.022	.	.	.	.	.	.	25-6Mo	31 x 2	or 18
IARM 347A	0.006	0.0020	0.0029	.	0.0008	0.062	0.0026	0.0003	0.0013	0.011	(0.005)	(0.002)	904L	31 x 2	or 18	
IARMNi800-19	.	0.0004	.	.	(0.001)	0.0070	0.0041	(0.0014)	.	.	31 x 2	or 18
SRM 1246	(0.004)	<0.001	.	(0.004)	.	(0.018)	(0.003)	(<0.0001)	.	.	(<0.001)	.	800	35 x 19		
IARM 25D	.	0.0036	.	.	0.0016	0.034	(0.005)	.	.	0.008	.	.	20	31 x 2	or 18	
<u>BS 187D</u>	(0.0035)	0.0026	0.0063	last	(0.0009)	0.046	0.0026	0.0019	(0.0011)	0.0085	0.0008	(0.0012)	20	38 x ~7	to ~13	
<u>BS 925A</u>	0.0015	0.0022	(0.0008)	.	(0.0005)	0.0039	0.0008	(0.0002)	(0.0003)	(0.0022)	(0.0014)	(0.002)	925	38 x ~7	or 19+	
<u>BS 187B</u>	(0.0041)	0.0013	(0.0003)	.	<0.002	0.0185	0.0019	0.0005	0.0009	0.0042	0.0008	0.0015	20	38 x ~7	or 19+	
23X 08811A	.	0.0038	.	.	0.0044	0.0096	.	.	.	0.0054	.	.	Incoloy	~40 x ~15		
IARM Ni800-18	.	0.0025	.	.	.	0.0087	(0.002)	(0.0003)	(0.0011)	0.0017	.	(0.0013)	800	38 x 2	or 19	
HRT Ni2018	.	0.0034	.	.	.	0.0098	.	.	.	.	.	.	31 x 20	.	
IARM 7C	.	0.0027	CRM	.	0.0015	0.034	0.0021	(0.001)	last	0.0020	(0.002)	(0.001)	330	31 x 2	or 18	
IARM NiH214-18	.	0.0033	.	.	0.0053	0.0026	.	.	Y:(0.008)	.	.	0.026	HAY214	31 x 2	or 18	
SS 387/1	.	0.017	.	.	.	.	.	.	.	.	.	.	901	41 x 13	
IARMNi244H-18	0.0009	(0.002)	CRM	.	0.0014	0.0087	(0.0009)	.	0.00012	(0.0003)	.	(0.0008)	244H	31 x 2	or 18	

RM Cr/Fe NICKEL ALLOY TYPE 'NIMONIC 75 AND 80A'

Number	Cr	Fe	Al	Mn	Si	Ti	C	Co	Cu	Mo	V	Ni
CT ISO122A	19.89	1.42	1.71	0.007	0.012	2.49	0.061					

RM Cr/Fe TYPE 'RA 333' NICKEL ALLOYS

Number	Cr	Fe	Al	Co	Cu	Mn	Mo	Nb	Si	W	Ni
BS 197B	25.73	16.24	0.11	3.22	0.030	1.58	3.27	(0.02)	0.92	2.91	45.6
BS 197A	25.11	18.07	0.18	3.06	0.12	1.56	2.99	0.20	0.96	2.79	44.44

Number	B	C	Mg	N	P	Pb	S	Sn	Ti	V	Units
BS 197B	0.0018	0.049	0.013	(0.049)	0.011	.	0.0008	(0.002)	0.091	0.053	wrought 38 mm Ø x ~7 or 19+ mm
BS 197A	0.0019	0.050	.	(0.052)	0.021	(0.0002)	<0.001	.	0.017	0.051	wrought 38 mm Ø x ~7 or 19+ mm

Cr/Fe NICKEL ALLOY TYPE 600, 601, 602, and 690

= class, where 1 = CRM and 2= RM

#	Number	Cr	Fe	Al	B	C	Co	Cu	Mg	Mn	Mo	N	Nb	Ni	Si	Ti	V
1	BS 690B	29.6	9.81	0.166	(0.0004)	0.026	(0.003)	(0.007)	(0.0006)	0.103	(0.0005)	0.025	(0.003)	59.7	0.20	0.218	(0.008)
1	BS 690A	29.5	9.08	0.209	0.0003	0.0321	0.0056	0.0072	0.0058	0.214	0.0025	0.0069	0.0039	60.5	0.036	0.340	0.0095
1	IARMI690-18	29.1	10.0	0.25	.	0.025	0.013	(0.012)	0.0030	0.154	(0.013)	0.012	(0.007)	59.8	(0.049)	0.324	0.048
1	IARM 338A	25.0	9.74	2.13	0.0049	0.168	0.035	0.0059	0.0058	0.052	0.0017	0.0276	(0.004)	62.3	0.020	0.130	0.0026
1	IARM 366A	22.0	14.3	1.51	.	0.025	0.041	0.038	(0.004)	0.205	0.079	0.0136	0.069	60.9	0.19	0.43	(0.028)
2	28X 6005E	16.93	6.98	0.06	.	.	0.62	0.39	0.002	0.39	.	.	.	.	0.60	0.28	.
2	28X 6001G	16.38	6.33	0.02	.	.	1.02	0.83	0.01	0.12	.	.	.	.	0.95	0.58	.
2	BS 600-2	16.36	6.80	0.16	0.0098	0.071	0.10	0.089	0.012	0.31	0.007	0.030	(0.02)	75.34	0.23	0.37	0.028
2	28X 6002F	16.23	8.24	0.18	.	.	0.22	0.02	0.004	0.65	.	.	.	.	0.25	0.12	.
2	28X 6004E	16.21	7.17	0.05	.	.	0.77	0.42	0.008	0.38	.	.	.	.	0.65	0.27	.
2	HRT NI2007	16.07	7.98	0.26	0.0030	0.012	.	0.02	0.63	0.03	.	.	.	74.21	0.32	0.35	.
1	IARM 53F	16.0	9.5	0.170	0.0026	0.078	0.056	0.077	0.016	0.260	0.084	.	0.088	72.7	0.170	0.255	0.024
1	SRM 1244	15.7	9.6	0.26	<0.005	0.062	0.058	0.26	.	0.29	0.20	.	.	73.2	0.12	0.25	.
2	BS 600-5	15.59	8.36	0.19	0.0018	0.047	0.029	0.10	0.004	0.21	0.049	0.011	(0.03)	74.83	0.26	0.23	0.054
2	28X 6003E	15.56	7.1	0.025	.	.	0.62	0.42	0.01	0.47	.	.	.	.	0.74	0.22	.
2	BS 600-6	14.86	7.33	0.288	0.0028	0.083	0.066	0.24	0.022	0.21	0.12	0.0078	0.14	76.0	0.31	0.24	0.023
2	BS 600-3	14.77	8.88	0.09	0.0082	0.020	0.10	0.24	0.012	0.28	0.007	0.0081	(0.02)	75.05	0.19	0.20	0.020
2	BS 600-4	14.72	8.40	0.06	0.0060	0.034	0.09	0.08	0.020	0.20	(0.002)	0.021	(0.015)	75.88	0.22	0.20	0.023
2	PV 202/1	14.48	7.48	.	.	0.085	.	0.253	.	0.217	.	.	.	.	0.472	.	.

Number	As	Ca	O	P	Pb	S	Sb	Sn	Ta	W	Zr	Units
BS 690B	(0.0004)	(0.0005)	0.0024	(0.003)	.	0.0005	.	(0.0006)	.	(0.002)	(0.002)	51 mm Ø x ~7 or 19+ mm 17025
BS 690A	(0.0004)	0.0009	0.0009	0.0052	(0.0001)	0.0004	(0.0002)	(0.0003)	(0.0011)	0.0011	0.0018	38 mm Ø x ~7 or 19+ mm 17025
IARM NI690-18	.	.	.	(0.004)	.	0.0007	.	.	.	(0.003)	.	31 mm Ø x 2 or 18 mm
IARM 338A	(0.0001)	(0.002)	0.0010	(0.003)	0.00007	0.0008	(0.00009)	0.00037	(0.002)	.	0.081	31 mm Ø x 2 or 18 mm Y: (0.06)
IARM 366A	.	.	(0.0010)	0.008	.	(0.0003)	.	.	.	0.02	(0.012)	31 mm Ø x 2 or 18 mm
28X 6005E	40 mm Ø x 15 mm
28X 6001G	40 mm Ø x 15 mm
BS 600-2	.	.	.	0.006	.	0.004	.	.	.	.	.	38 mm Ø x ~12 or 20 mm
28X 6002F	40 mm Ø x 15 mm
28X 6004E	40 mm Ø x 15 mm
HRT NI2007	.	.	.	0.008	.	(0.002)	.	.	.	.	.	40 mm Ø x 20 mm
IARM 53F	.	.	.	0.0070	.	(0.0022)	.	(0.002)	(0.004)	(0.014)	.	31 mm Ø x 2 or 18 mm
SRM 1244	.	.	.	0.010	.	0.003	.	.	.	.	.	35 mm Ø x 19 mm
BS 600-5	.	.	0.002	0.005	.	<0.002	.	.	.	.	.	38 mm Ø x ~7 or 19+ mm
28X 6003E	40 mm Ø x 15 mm
BS 600-6	.	.	.	0.007	.	0.001	.	.	.	.	.	38 mm Ø x ~7 or 19+ mm
BS 600-3	.	.	.	0.008	.	0.005	.	.	.	.	.	38 mm Ø x 20 mm
BS 600-4	.	.	.	0.007	.	0.004	.	.	.	.	.	38 mm Ø x 20 mm
PV 202/1	.	.	.	(<0.01)	.	(<0.01)	.	.	.	.	.	40 mm Ø x 25 mm

Need a larger size?
Most BS items are
available in any height.

Cr/Fe NICKEL ALLOY TYPE 718

= class, where 1 = CRM and 2 = RM

#	Number	Cr	Fe	Nb	Mo	Ti	Al	B	C	Co	Cu	Mn	P	S	Si	Ni
1	SS 351/1	19.14	17.20	5.31	3.04	0.938	0.554	0.0035	0.0255	0.145	0.0222	0.0562	0.0045	0.00037	0.080	53.35
1	NCS HS41746	18.56	18.54	5.15	3.28	1.03	0.635	0.0025	0.027	0.111	0.023	0.057	0.0033	0.0005	0.080	52.27
1	IARM Ni718-20	18.5	18.1	5.24	3.01	0.94	0.54	0.0039	0.028	0.066	0.025	0.027	0.0032	(0.0030)	0.044	53.3
1	SRM 1249	18.472	17.693	5.196	3.112	0.959	0.5682	(0.0023)	(0.0380)	0.3371	0.1402	(0.108)	(0.0134)	(0.00064)	(0.120)	53.29
1	BS 718D	18.32	18.51	5.16	3.00	0.93	0.631	0.0041	0.037	0.368	0.071	0.100	0.0083	0.0004	0.072	52.5
1	SS 351	18.12	18.26	5.20	3.06	1.06	0.55	0.0051	0.025	0.136	0.016	0.037	(0.006)	0.0006	0.14	53.1

Number	As	Mg	N	O	Pb	Sn	Ta	V	W	Zr	Units
SS 351/1	.	0.0016	0.0077	.	Sb:0.00024	0.00033	0.0033	0.0181	0.0209	0.0017	wrought 41 mm Ø x 13 mm
NCS HS41746	(0.008)	.	.	.	40 mm Ø x 30 mm
IARM Ni718-20	.	0.0025	0.009	.	.	.	0.006	0.016	0.013	.	38 mm Ø x ~2 or 19 mm
SRM 1249	.	(0.0012)	(0.007)	.	(0.00001)	(0.0024)	(0.0027)	(0.0338)	(0.0846)	(0.0029)	41 mm Ø x 19 mm
BS 718D	0.0011	0.0038	0.0084	0.0015	(0.00006)	0.0020	(0.0022)	0.038	0.049	(0.002)	wrought 38 mm Ø x ~7 or 19+ mm
SS 351	wrought 41 mm Ø x 13 mm

Need a larger size?
Most BS items are
available in any height.

Cr/Fe NICKEL ALLOY TYPE 750

= class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties, sale price

#	Number	Cr	Fe	Ti	Al	C	Co	Cu	Mn	Mo	Nb	Ni	P	S	Si	Ta	
1	BS 750C	15.92	8.36	2.61	0.91	0.041	0.036	0.012	0.056	0.070	0.83	71.0	0.0059	(0.0004)	0.071	(0.006)	17025
3	BS 750A	15.68	.	2.60	0.74	0.047	0.29	0.04	0.09	0.22	1.07	71.9	(0.005)	0.0007	0.10	0.046	
1	BS 750D	15.50	8.42	2.53	0.70	0.039	(0.023)	(0.026)	0.188	0.026	0.89	71.3	(0.005)	0.0005	0.188	(0.007)	17025
3	HT 8211X	15.48	6.81	2.33	0.68	0.052	0.10	0.090	0.53	.	0.45	.	.	0.004	0.36	0.22	
3	HT 8209X	15.38	7.01	2.74	0.88	0.044	0.15	0.051	0.67	.	0.52	.	.	0.003	0.31	0.23	
1	IARM 57E	15.3	8.01	2.54	0.74	0.060	0.021	(0.010)	0.079	0.014	1.00	72.1	(0.005)	(0.0009)	0.052	.	

Number	As	B	Ca	Mg	N	O	Pb	Sb	Sn	V	W	Zr	Units
BS 750C	(0.0009)	0.0028	(0.0006)	0.0022	0.0031	(0.0014)	(0.0001)	(0.00007)	0.0012	0.132	(0.0028)	0.022	38 mm Ø x ~7 or 19+ mm wrought
BS 750A	.	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x ~7 or 19+ mm wrought
BS 750D	0.0006	0.0024	.	0.0051	0.0041	0.0019	.	.	0.0008	(0.028)	(0.005)	0.014	38 mm Ø x ~7 or 19+ mm wrought
HT 8211X	.	.	.	.	.	.	.	.	.	.	.	.	25 mm Ø x 50 mm wrought
HT 8209X	.	.	.	.	.	.	.	.	.	.	.	.	25 mm Ø x 50 mm wrought
IARM 57E	.	0.008	.	(0.0013)	.	.	.	.	.	0.021	(0.009)	0.037	31 mm Ø x 2 or 18 mm

Cr/Mo NICKEL ALLOY AND TYPES 625, 725, and 6255

= class, where 1 = CRM and 2 = RM

* Provisional Analysis

#	Number	Cr	Mo	Fe	Nb	Si	Ti	W	Al	B	C	Co	Cu	Mn	P	S	Ni
1	BS 6255	24.6	6.8	16.0	0.094	(0.27)	0.35	(0.03)	(0.082)	0.0026	(0.0124)	(0.075)	0.75	0.17	0.0125	0.0005	50.5
1	BS 625E	22.44	8.77	3.81	3.56	0.065	0.27	0.016	0.214	0.0022	0.049	0.031	0.024	0.050	0.004	0.0005	60.7
1	BS H6B	22.3	14.05	3.45	(0.1)	(0.035)	0.050	3.20	0.23	0.0016	(0.008)	0.079	0.035	0.226	0.0054	0.0005	55.9
2	HRT NI2009	22.26	9.01	4.12	3.52	0.057	0.35	.	0.20	0.0033	0.033	.	.	(0.023)	(0.003)	(0.002)	60.40
1	IARM 54H	21.97	8.69	4.03	3.49	0.14	0.288	0.09	0.31	0.0018	0.018	0.099	0.102	0.105	0.0069	(0.002)	60.7
1	BS 625F	21.89	9.11	3.76	3.53	0.106	0.27	0.034	0.147	0.0031	0.0215	0.042	0.150	0.094	0.0069	(0.0004)	60.72
1	ECRM 377-2	21.72	8.94	3.77	3.50	0.077	0.264	.	0.232	(0.0006)	0.0202	0.0348	0.0104	0.0225	0.0036	0.0006	61.45
1	ECRM 377-1	21.72	8.94	3.77	3.50	0.077	0.255	.	0.216	(0.0006)	0.0202	0.0348	0.0110	0.0225	0.0036	0.0006	61.45
1	28X 6256A	21.29	8.81	(0.034)	3.75	0.041	0.266	.	0.301	.	0.0173	.	0.018	(0.0004)	0.0033	(0.0016)	65.4
1	IARM 274A	21.0	8.06	7.60	3.48	(0.02)	1.55	0.06	0.26	0.002	0.007	0.143	0.10	0.08	0.007	(0.0004)	57.5
2	BS 725	20.72	7.97	8.0	3.52	0.02	1.52	.	0.13	(0.002)	0.010	0.02	0.014	0.08	0.004	0.002	58.0
1	NCS HS41745	20.69	8.37	3.50	3.19	0.071	0.011	.	0.016	.	0.043	(0.011)	.	0.124	0.0023	0.0006	63.72
2	26X 11384E	20.5	10.2	0.98	.	0.15	2.6	.	0.50	.	.	0.30	0.12	0.13	.	.	.
1	IARMNi725-18	20.5	7.9	7.47	3.47	0.084	1.55	(0.04)	0.22	0.0023	(0.008)	0.077	0.103	0.076	0.0047	(0.0008)	58.4
1	IARM 276A	20.54	16.20	1.30	0.014	0.043	(0.004)	(0.03)	0.245	0.0038	0.0040	0.041	0.038	0.305	0.006	0.0005	61.1
1	IARM Ni686-20	20.4	16.1	0.44	0.13	0.037	0.058	3.59	0.34	.	0.0087	0.017	0.039	0.270	(0.003)	0.0005	58.6
1	IARM 362B	20.4	16.1	(0.010)	(0.015)	(0.04)	0.052	3.90	0.32	.	0.0079	(0.010)	.	0.229	(0.005)	(0.0004)	58.7
1	28X 6251M	20.22	9.60	4.22	2.64	0.251	0.0096	.	0.006	0.0040	0.0026	0.0080	0.0570	0.0694	0.002	0.0012	62.93
1	28X 6255M	19.65	8.32	2.03	4.09	0.448	0.346	.	0.334	0.0101	0.0342	0.164	0.0647	0.2034	0.0105	0.0080	64.16
1	IARM Ni282-18	19.4	8.40	0.90	0.058	0.054	2.20	(0.043)	1.57	0.0014	0.060	10.38	0.012	0.042	(0.003)	(0.0006)	56.8
2	HRT NI2004	15.72	14.89	0.41	0.022	0.019	0.391	0.011	0.097	.	0.005	0.011	0.010	0.27	0.004	0.002	68.05
1	IARM NiS-18	15.62	15.4	0.81	.	0.49	(0.0023)	0.36	0.388	0.0061	0.012	0.416	.	0.65	0.006	(<0.001)	65.6

#	Number	Cr	Mo	Fe	Nb	Si	Ti	W	Al	B	C	Co	Cu	Mn	P	S	Ni
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Number	As	Ca	Mg	N	O	Pb	Sb	Sn	Ta	V	Zr	Units		
BS 6255	(0.004)	(0.001)	(0.001)	0.014	0.0015	(0.0002)	(0.0003)	0.0010	(0.003)	(0.034)	(0.002)	wrought	63 mm Ø x ~7 or 19+ mm	17025
BS 625E	(0.003)	(0.0006)	0.0021	0.0074	0.0015	(0.00005)	(0.0001)	(0.0006)	(0.0036)	0.020	(0.003)	wrought	38 mm Ø x ~12 to 19 mm	17025
BS H6B	(0.0015)	.	0.0010	0.0118	0.0007	.	(0.006)	(0.0007)	.	0.0063	.	wrought	38 mm Ø x ~7 or 19+ mm	17025
HRT NI2009	.	.	.	.	.	.	.	.	.	.	.	.	35 mm Ø x 20	
IARM 54H	.	Hf: (0.0030)	(0.0007)	(0.0109)	(0.0005)	.	.	(0.0010)	(0.0060)	0.014	(0.0015)	.	31 mm Ø x 2 or 18 mm	
BS 625F	0.0011	H:4ppm	0.0071	(0.018)	<0.01	<0.001	<0.001	0.0008	<0.01	0.014	<0.02	wrought	38 mm Ø x ~7 or 19+ mm	17025
ECRM 377-2	.	.	.	.	.	.	.	.	.	.	.	wrought	40 mm Ø x 20 mm	
ECRM 377-1	.	.	.	.	.	.	.	.	.	.	.	wrought	40 mm Ø x 20 mm	
28X 6256A	.	.	.	0.007	.	.	.	.	.	.	.	HIP	40 mm Ø x 13 mm	
IARM 274A	.	.	0.0019	0.007	0.0006	.	.	0.001	(0.002)	0.019	(0.001)	.	31 mm Ø x 2 or 18 mm	
BS 725	.	.	.	0.0051	.	.	.	.	.	.	.	wrought	38 mm Ø x ~7 or 19+ mm	
NCS HS41745	.	.	.	.	.	.	.	.	(0.001)	.	.	.	40 mm Ø x 30 mm	
26X 11384E	.	.	.	.	.	.	.	.	.	.	.	cast	40 mm Ø x 15 mm	
IARM Ni725-18	.	.	(0.005)	0.008	.	.	.	(0.0011)	(0.006)	0.013	.	.	31 mm Ø x 2 or 18 mm	
IARM 276A	(0.0009)	<0.007	0.007	0.0388	0.0010	(0.0004)	0.00019	0.0004	0.011	(0.008)	(0.003)	.	38 mm Ø x 2 or 18 mm	
IARM Ni686-20	.	.	.	0.0097	0.0006	.	.	.	.	0.009	(0.0013)	.	31 mm Ø x 2 or 18 mm	
IARM 362B	.	.	0.008	0.0060	(0.0006)	.	.	.	.	(0.010)	.	.	31 mm Ø x 2 or 18 mm	
28X 6251M	.	.	.	.	.	.	.	.	0.0112	.	.	c.cast	~40 mm Ø x ~15 mm	
28X 6255M	.	.	.	.	.	0.0005	.	0.0012	0.093	.	.	c.cast	~40 mm Ø x ~15 mm	
IARM Ni282-18	.	.	0.0054	.	.	.	.	.	.	(0.013)	(0.0014)	.	31 mm Ø x 2 or 18 mm	
HRT NI2004	0.010	0.012	.	.	35 mm Ø x 20 mm last	
IARM NiS-18	La: 0.031	.	0.0021	(0.0027)	.	.	38 mm Ø x ~2 or 19 mm	

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VARIOUS INCOLOY ALLOYS

= class, where 1 = CRM, 2 = RM, and 3 = RM with no uncertainties and also sale price for type # 3

#	Number	Cr	Fe	Mn	Si	Ti	Al	B	C	Co	Cu	Mo	Nb	P	S	Ni
3	HH 5179A	22.20	Rem	0.87	0.38	0.46	0.30	.	0.042	.	0.26	.	.	0.012	0.003	34.13
3	HH 5157A	21.48	Rem	0.95	0.43	0.55	0.45	.	0.067	.	0.33	.	.	0.012	0.003	29.31
3	HH 5196A	20.66	Rem	1.05	0.45	1.13	0.31	.	0.036	.	0.24	.	.	0.011	0.002	31.46
3	HH 5300A	18.18	Rem	0.86	0.35	0.54	0.45	.	0.026	.	0.28	.	.	0.013	0.003	33.56
2	23X DS5E	8.64	Rem	1.04	1.98	0.17	0.083	.	0.080	0.50	0.30	0.30	.	.	.	36.6
1	IARM Ni909-18	(0.010)	42.4	(0.030)	0.42	1.62	(0.009)	0.0013	(0.006)	13.1	(0.007)	.	4.6	(0.002)	0.0018	37.7 N: 0.0026

Number	Units
HH 5179A	wrought 44 mm Ø x 12 mm
HH 5157A	wrought 44 mm Ø x 12 mm
HH 5196A	wrought 44 mm Ø x 12 mm
HH 5300A	wrought 41 mm Ø x 12 mm
23X DS 5E	cast 40 mm Ø x 15 mm
IARM Ni909-18	31 mm Ø x 2 or 18 mm

CRM Cr/W TYPE 'HAYNES 230'

analysis listed in mass %

* Provisional Analysis

Number	Cr	W	Mo	Fe	Mn	Si	Ni	Al	B	C	Co	Cu	Mg	N	Nb	P	V
BS H230	22.35	14.45	1.69	1.376	0.470	0.39	58.4	0.29	0.0044	0.096	0.24	0.030	0.004	0.061	0.053	0.0042	0.0056
BS H230A	22.2	13.9	1.29	1.02	0.50	0.42	57.9	0.45	0.0027	0.092	2.02	<0.02	0.0022	0.043	<0.02	0.0049	(0.0029)
IARM 68F	21.9	14.5	1.35	1.50	0.499	0.381	(59.6)	0.26	(0.0050)	0.101	0.24	0.031	(0.006)	0.045	0.084	(0.006)	(0.007)
IARM 68E	21.88	14.6	1.18	1.06	0.51	0.39	(59.9)	0.30	0.007	0.099	0.16	0.022	(0.006)	0.050	0.035	(0.005)	(0.007)

Number	As	Ca	La	O	Pb	S	Sb	Sn	Ta	Ti	Zr	Units
BS H230	0.0007	(0.00003)	.	0.0009	(0.00003)	(0.0003)	(0.00007)	(0.0003)	(<0.1)	(0.01)	(0.002)	38 mm Ø x ~7 or 19+ mm
BS H230A	<0.002	.	(0.012)	(0.0004)	(0.00004)	<0.0009	.	<0.003	<0.03	(0.007)	<0.005	38 mm Ø x ~7 or 19+ mm 17025
IARM 68F	.	.	(0.0130)	0.0007	.	(0.0005)	.	.	.	0.010	.	31 mm Ø x 2 or 18 mm new & chips
IARM 68E	.	.	(0.008)	0.0007	.	(0.0005)	.	.	.	0.015	.	31 mm Ø x 2 or 18 mm

'MONEL' TYPE COPPER-NICKEL ALLOY

= class, where 1 = CRM and 2 = RM

Number	Cu	Al	Fe	Mn	Si	Ti	C	Co	Cr	Mg	Mo	Nb	P	Pb	S	Ni	
1 BS 400D	33.0	0.0231	2.00	0.993	0.146	0.064	0.130	0.032	0.0057	0.0217	0.0024	(0.0001)	(0.0010)	0.0004	0.0006	63.4	17025
1 IARM 51D	32.6	0.036	1.68	1.03	0.16	0.033	0.139	0.011	0.064	0.016	0.019	(0.006)	(0.010)	.	0.0015	64.1	
1 212X 04400A	32.47	0.030	2.065	1.027	0.253	0.0193	0.157	0.0432	0.166	0.053	0.0307	.	0.0033	.	(0.002)	63.69	
1 BS 405A	32.1	(0.002)	1.51	1.90	(0.15)	0.0021	0.051	0.019	0.0099	(0.17)	0.0031	0.0004	0.0037	0.0004	0.041	63.8	17025
1 SS 363/1	31.90	0.027	1.86	1.26	0.028	(0.03)	0.140	0.032	(0.05)	.	.	.	.	.	(0.002)	Rem	
2 BS 405	31.80	0.10	1.34	1.03	0.04	0.003	0.13	0.025	0.006	0.026	(0.002)	(0.002)	0.010	.	0.041	65.49	
2 BS 400-3	31.25	0.001	1.60	0.85	0.063	0.004	0.153	0.46	0.21	0.012	0.003	(0.0004)	0.026	(0.0015)	0.006	65.4	
1 IARM NiR405-20	31.2	0.043	1.71	0.96	0.161	0.0086	0.117	0.040	0.499	0.018	0.102	0.103	0.011	0.0010	0.040	64.8	
2 BS 400-1	30.97	0.004	1.27	1.07	0.16	0.007	0.109	0.37	0.033	0.048	0.001	0.0003	0.022	0.0020	0.008	66.0	
2 HRT NI2001	30.84	(0.006)	0.783	0.776	(0.017)	.	(0.011)	0.016	0.052	.	.	.	(0.005)	.	(0.001)	67.97	
2 BS 400-2	30.75	0.006	1.42	1.17	0.17	0.011	0.170	0.46	0.091	0.033	0.0012	0.0004	0.027	(0.001)	0.008	65.9	
1 212X 05500A	29.91	3.00	1.162	0.634	0.167	0.632	0.135	(0.0090)	0.073	0.0098	.	.	0.0031	.	0.0010	64.3	
1 BS 500E	29.9	2.94	0.722	0.605	0.148	0.607	0.134	0.017	0.0174	0.0058	0.0044	(0.002)	0.0022	(0.0008)	0.0006	64.7	17025
1 SRM CI248	29.80	0.009	2.10	0.31	1.61	.	0.266	.	0.095	.	0.006	.	0.002	0.00038	0.0008	65.75	
1 IARM 52D	29.6	2.95	1.38	0.59	0.170	0.60	0.125	0.005	(0.004)	0.0065	.	(0.002)	(0.002)	.	(0.0012)	64.5	
2 HRT NI2019	29.41	2.97	0.99	0.62	0.15	0.63	0.139	.	0.01	.	(0.02)	.	(0.001)	.	(0.001)	65.19	

Number	Cu	Al	Fe	Mn	Si	Ti	C	Co	Cr	Mg	Mo	Nb	P	Pb	S	Ni
Number	As	B	Bi	Ca	Cd	N	O	Sb	Sn	V	Zn	Zr	Units			
BS 400D	(0.0001)	0.0009	.	(0.001)	Ta:(0.009)	(0.00017)	0.0008	(0.0001)	(0.00012)	(0.0002)	(0.0004)	(0.0003)	wrought	38 mm	Ø x	~7 or 19+ mm
IARM 51D	.	.	.	.	.	.	.	.	.	.	.	.	wrought	31 mm	Ø x	2 or 18 mm
212X 04400A	.	0.0019	.	.	.	0.0005	.	.	.	.	.	.	wrought	~40 mm	Ø x	~15 mm
BS 405A	0.0004	0.0007	.	(0.00006)	.	(0.001)	0.0007	W: 0.0017	0.0004	(0.002)	0.0017	0.012	wrought	38 mm	Ø x	~7 or 19+ mm
SS 363/1	.	.	.	.	.	.	.	.	.	.	.	.	wrought	38 mm	Ø x	19 mm
BS 405	.	(0.001)	.	.	.	.	.	.	.	.	.	.	wrought	38 mm	Ø x	~7 or 19+ mm
BS 400-3	0.004	(0.0002)	.	.	.	.	.	(0.001)	0.0014	0.003	(0.001)	.	wrought	38 mm	Ø x	~18 mm
IARM NiR405-20	.	0.0005	.	.	.	0.0007	(0.0008)	.	.	(0.0020)	.	0.006	wrought	38 mm	Ø x	2 or 19 mm
BS 400-1	0.004	(0.0005)	.	.	.	.	.	(0.0005)	0.0010	(0.001)	(0.0006)	.	wrought	38 mm	Ø x	~18 mm
HRT NI2001	.	.	.	.	.	.	.	.	.	.	.	.	wrought	40 mm	Ø x	20
BS 400-2	0.004	(0.0006)	.	.	.	.	.	(0.001)	0.0012	(0.003)	(0.001)	.	wrought	38 mm	Ø x	~18 mm
212X 05500A	.	0.0015	.	.	.	0.0010	.	.	.	.	.	0.0343	wrought	~38 mm	Ø x	~15 mm
BS 500E	(0.0008)	0.0017	.	(0.0004)	W:(0.002)	(0.00025)	0.0005	.	(0.0008)	(0.001)	(0.001)	0.0133	wrought	38 mm	Ø x	~7 or 19+ mm
SRM CI248	.	.	.	.	.	.	.	.	0.00011	.	0.0003	.	wrought	32 mm	Ø x	19 mm
IARM 52D	.	(0.0020)	.	.	.	.	.	.	0.0013	(0.0010)	.	0.026	wrought	31 mm	Ø x	2 or 18 mm
HRT NI2019	.	(0.0026)	.	.	.	(0.0024)	.	.	.	.	.	.	wrought	35 mm	Ø x	20 mm

Fe, Fe/Co, and Fe/Mo NICKEL ALLOY

= class, where 1 = CRM and 2 = RM

CT: 30-35 mm Ø x ~16 mm

IARM: 31 mm Ø x 2 mm

SRM: 31-32 mm Ø x 19 mm

VS: ~38 mm Ø x ~19 mm

#	Number	Fe	Co	Cu	Mo	Al	B	C	Cr	Mn	Nb	Ni	P	S	Si	Ta	Ti	V
1	SRM 1159	51.0	0.022	0.038	0.01	.	.	0.007	0.06	0.30	.	48.2	0.003	0.003	0.32	.	.	.
1	SRM 1250	40.5	16.1	0.022	0.014	0.99	0.0078	0.022	0.077	0.052	2.99	37.78	<0.003	0.0025	0.097	0.003	1.48	0.077
2	IARM 203A	40.6	12.88	0.05	0.090	0.066	.	0.005	0.72	0.023	5.00	38.4	0.006	0.0009	0.41	.	1.58	.
1	SRM 1160	14.3	0.054	0.021	4.3	.	.	0.019	0.05	0.55	.	80.3	0.003	0.001	0.37	.	.	.
1	VS NG15/2	Rem	18.6	0.282	.	.	.	0.0204	0.016	0.40	.	27.7	0.017	0.012	0.177	.	.	.
1	VS NG16/2	Rem	16.5	0.044	.	.	.	0.018	0.14	0.15	.	33.2	0.0023	0.0037	0.27	.	.	.
1	VS NG17/2	Rem	14.0	0.47	.	.	.	0.0031	0.23	0.276	.	29.6	0.020	0.012	0.018	.	.	.

Mo/Fe 'HASTELLOY' TYPE ALLOY

= class, where 1 = CRM and 2 = RM

* Provisional Analysis

#	Number	Mo	Co	Cr	Fe	W	Ni	Al	C	Cu	Mn	N	P	S	Si	Ti	V
1	IARM NiB-3	28.2	0.142	1.55	1.57	(0.07)	67.2	0.41	(0.003)	(0.014)	0.70	0.0027	(0.005)	(0.0004)	(0.021)	(0.007)	(0.007)
1	215X HB4G	27.94	1.703	0.375	5.94	(0.096)	61.80	0.0159	0.0843	0.0192	0.597	0.0013	0.049	0.0313	1.005	0.0338	0.212
1	BS H1C	27.2	(0.01)	0.70	1.29	(0.009)	69.8	0.15	0.0022	(0.002)	0.51	(0.0005)	(0.0049)	(0.0004)	(0.01)	(0.008)	(0.02)
2	BS H1B	26.52	<0.02	<0.01	1.00	.	(71.3)	0.12	0.006	(0.01)	0.82	.	0.003	0.0005	0.049	0.11	<0.01
1	215X HC1M	19.72	2.49	15.62	4.03	3.59	.	0.008	0.0255	0.024	1.272	0.0040	.	(0.0018)	0.493	0.267	0.149
1	215X HC2K	18.44	1.70	16.46	2.97	4.02	(53.8)	0.005	0.0455	.	0.909	0.0091	.	0.0163	1.22	0.181	0.282
1	215X HC3M	17.38	0.973	17.86	4.84	4.63	.	0.111	0.0897	0.0988	0.685	0.0066	0.0211	0.0131	0.944	0.150	0.399
1	215X HC5V	16.03	0.0460	20.05	8.15	6.19	(45.9)	0.721	0.201	0.485	0.100	0.0081	0.054	0.038	1.379	0.198	0.607
1	BS H2E	15.98	0.032	15.85	5.41	3.28	58.3	0.35	0.0030	(0.0070)	0.55	0.0119	(0.005)	(0.00045)	(0.030)	(0.007)	0.15
1	215X 10276A	15.96	0.182	15.56	5.79	3.59	57.81	0.203	0.008	0.0423	0.498	0.0099	0.0027	(0.001)	0.029	0.0186	0.196
2	HRT NI2012	15.77	.	15.56	6.66	3.47	57.32	0.23	(0.008)	0.09	0.38	.	(0.009)	(0.003)	(0.06)	.	0.20
1	BS C-2000	15.5	0.076	22.54	1.00	(0.15)	58.7	0.29	<0.005	1.52	0.19	0.018	<0.01	0.0008	<0.03	(0.004)	(0.011)
1	IARM NiC276-18	15.4	0.170	15.9	6.09	3.23	58.5	0.114	0.0032	0.14	0.42	(0.017)	(0.008)	(0.0007)	(0.017)	0.007	(0.018)
1	BS H2C	15.36	0.178	16.14	5.99	3.25	58.3	0.124	0.0027	0.116	0.415	0.0126	0.0086	0.00030	0.031	0.0172	0.0222
1	BS H6B	14.05	0.079	22.3	3.45	3.20	55.9	0.23	(0.008)	0.035	0.226	0.0118	0.0054	0.0005	(0.035)	0.050	0.0063
1	BS H6C *	13.5	0.11	21.3	3.44	3.10	[57.8]	0.22	0.002	0.056	0.31	<0.05	<0.05	<0.005	0.012	0.006	0.009
1	IARM 65D	13.1	1.22	21.5	3.66	2.81	56.8	0.29	0.0021	0.050	0.28	0.019	0.008	0.0004	0.035	0.005	0.012
2	HRT NI2014	13.03	(0.02)	21.42	2.47	2.92	59.23	0.16	(0.009)	.	0.30	.	(0.006)	(0.003)	0.06	0.13	(0.02)
1	BS H3C	8.82	1.37	21.50	19.54	0.623	46.6	0.149	0.087	0.106	0.492	0.0266	0.0150	(0.0003)	0.36	(0.0064)	0.047
1	BS H3D *	8.47	0.70	21.8	19.3	0.58	[47.5]	0.14	0.068	0.067	0.63	<0.05	0.010	<0.005	0.27	0.045	0.024
1	IARM 329A	8.38	0.052	33.7	0.92	0.021	55.8	0.29	0.0086	0.065	0.222	0.073	0.0059	0.0003	0.053	(0.005)	0.009
1	IARM 67C	4.93	1.75	28.9	13.48	1.97	45.8	0.14	0.0058	1.24	1.01	0.035	0.011	0.0006	0.14	0.005	0.031
1	BS G30	4.90	2.10	28.89	13.7	1.88	45.3	0.263	0.0044	1.22	1.02	0.028	0.010	0.0006	0.32	(0.004)	(0.023)
1	IARM NiPE16-18	3.29	0.77	16.6	34.4	0.038	42.9	1.20	0.052	(0.053)	0.122	(0.006)	(0.006)	(0.0007)	0.13	1.18	(0.018)
1	IARM 328A	3.16	(0.0003)	20.57	22.41	(0.015)	47.03	0.189	(0.006)	1.94	0.017	0.0056	(0.004)	0.0006	0.021	1.53	0.008
1	IARM Ni925-18	2.82	0.43	20.8	26.4	0.27	44.2	0.23	0.0114	1.69	0.518	0.0033	0.012	0.0024	0.075	2.19	(0.031)
1	IARM 68F	1.35	0.24	21.9	1.50	(0.02)	(59.6)	0.26	0.101	0.031	0.499	0.045	(0.004)	(0.0006)	(0.03)	0.14	(0.007)

#	Number	Mo	Co	Cr	Fe	W	Ni	Al	C	Cu	Mn	N	P	S	Si	Ti	V
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Number	As	B	Ca	Mg	Nb	O	Pb	Sb	Sn	Ta	Zr	Units
IARM NiB-3	.	(0.0020)	.	0.010	0.15	31 mm Ø x 2 or 18 mm
215X HB4G	.	.	.	0.056	.	.	.	.	.	.	.	~40 mm Ø x ~15 mm
BS H1C	(0.001)	(0.001)	(0.001)	(0.0012)	(0.0009)	(0.0009)	(0.00002)	.	(0.002)	(0.009)	(0.001)	38 mm Ø x ~7 or 19+ mm 17025
BS H1B	.	0.003	.	.	<0.005	.	.	.	.	.	.	last 38 mm Ø x ~7 or ~12 mm
215X HC1M	.	.	.	.	.	.	.	.	.	.	.	~40 mm mm Ø x ~15 mm
215X HC2K	.	(0.006)	.	.	.	.	.	.	.	.	.	~40 mm mm Ø x ~15 mm
215X HC3M	.	.	.	.	.	.	.	.	.	.	.	~40 mm mm Ø x ~15 mm
215X HC5V	.	.	.	.	.	.	.	.	.	.	.	~40 mm mm Ø x ~15 mm
BS H2E	(0.0006)	(0.0028)	(0.0004)	0.0019	(0.009)	0.0005	(0.002)	(0.00004)	(0.001)	(0.02)	(0.002)	32 mm Ø x ~7 or 19+ mm 17025
215X 10276A	.	.	.	0.0090	0.031	.	.	.	.	.	0.009	~40 mm Ø x ~15 mm
HRT NI2012	.	.	.	.	.	.	.	.	.	.	.	38 mm Ø x 20 mm
BS C-2000	0.0012	(0.0009)	(0.0009)	0.0075	(0.02)	0.0011	(0.0003)	(0.0006)	(0.0005)	(0.002)	(0.002)	38 mm Ø x ~7 or 19+ mm 17025
IARM NiC276-18	0.0020	.	.	(0.010)	(0.061)	.	.	.	.	CRM	.	31 mm Ø x 2 or 18 mm
BS H2C	0.0008	0.0008	0.0004	0.0061	0.032	0.0012	0.00014	0.0006	0.0011	(0.00008)	(0.00012)	32 mm Ø x ~7 or 19 mm 17025 last
BS H6B	(0.0015)	0.0016	.	0.0010	(0.1)	0.0007	.	(0.006)	(0.0007)	.	.	38 mm Ø x 19+ mm 17025
BS H6C *	<0.005	0.001	.	<0.01	<0.05	<0.005	<0.005	<0.005	0.002	<0.05	.	38 mm Ø x ~7 or 19+ mm
IARM 65D	.	(0.001)	.	0.007	0.033	0.0005	.	.	(0.001)	(0.01)	(0.002)	31 mm Ø x 2 or 18 mm
HRT NI2014	.	.	.	.	.	.	.	.	.	.	.	25 mm Ø x 20 mm
BS H3C	(0.003)	0.0020	(0.0003)	0.0020	0.095	0.0013	.	(0.0003)	0.0019	(0.0001)	(0.005)	38 mm Ø x ~7 or 19+ mm 17025
BS H3D *	.	0.003	.	.	0.40	<0.005	.	.	.	.	0.002	38 mm Ø x ~7 or 19+ mm
IARM 329A	0.0009	0.0010	.	0.0124	0.131	0.0027	0.00003	0.00013	(0.0005)	.	(0.0012)	31 mm Ø x 2 or 18 mm
IARM 67C	.	(0.001)	.	0.0068	0.36	0.0016	.	(0.0003)	0.0014	(0.006)	(0.002)	31 mm Ø x 2 or 18 mm
BS G30	0.0018	0.0010	(0.0010)	0.0063	0.419	0.0027	<0.01	(0.0003)	0.0011	(0.003)	(0.002)	38 mm Ø x ~7 or 19+ mm 17025
IARM NiPE16-18	.	0.0028	.	.	0.040	(0.0006)	.	.	.	CRM	0.019	31 mm Ø x 2 or 18 mm
IARM 328A	(0.0009)	0.0011	.	(0.0008)	3.14	0.0006	(0.00002)	0.00023	(0.0002)	(0.0004)	(0.004)	31 mm Ø x 2 or 18 mm
IARM Ni925-18	.	0.0034	.	.	0.40	0.0011	.	.	.	CRM	.	31 mm Ø x 2 or 18 mm
IARM 63D	.	(0.0050)	.	(0.006)	0.084	.	.	.	.	.	(0.002)	31 mm Ø x 2 or 18 mm

Need a larger size?
Most BS items are
available in any height.

NICKEL ALLOY XRF SET

-7 mm discs **17025**

AVAILABLE INDIVIDUALLY

Part Number: BS NI-18

Grade	Number	Al	As	B	C	Co	Cr	Cu	Fe	Mg	Mn	Mo	N	Nb	Ni	O	P	Pb	S	Si	Sn	Ta	Ti	V	W	Zr
Nickel 200	BS 200A	0.0281	0.0015	0.0044	0.078	0.0564	0.0006	0.0038	0.074	0.0131	0.151	0.0004	0.0004	0.0004	99.54	0.0013	0.0007	(0.00005)	0.0037	0.0051	(0.0001)	(0.0003)	0.0427	0.0006	0.0005	(0.0004)
Inconel 400	BS 400D	0.0231	(0.0001)	0.0009	0.130	0.032	0.0057	33.0	2.00	0.0217	0.993	0.0024	(0.00017)	(0.0001)	63.4	0.0008	(0.0010)	0.0004	0.0006	0.146	(0.00012)	(0.009)	0.064	(0.0002)	(0.0004)	(0.0003)
Inconel® K500	BS 500E	2.94	(0.0008)	0.0017	0.134	0.017	0.0174	29.9	0.722	0.0058	0.605	0.0044	(0.00025)	(0.002)	64.7	0.0005	0.0022	(0.0008)	0.0006	0.148	(0.0008)	.	0.607	(0.001)	(0.002)	0.0133
Inconel® 600	BS 600-6	0.288	.	0.0028	0.083	0.066	14.86	0.24	7.33	0.022	0.21	0.12	0.0078	0.14	76.0	.	0.007	.	0.001	0.31	(-0.003)	(-0.003)	0.24	0.023	.	.
Inconel® 625	BS 625F	0.147	0.0011	0.0031	0.0215	0.042	21.89	0.150	3.76	0.0071	0.094	9.11	(0.018)	3.53	60.72	<0.01	0.0069	<0.001	(0.0004)	0.106	0.0008	<0.01	0.27	0.014	0.034	<0.02
Inconel® 690	BS 690A	0.209	(0.0004)	0.0003	0.0321	0.0056	29.5	0.0072	9.08	0.0058	0.214	0.0025	0.0069	0.0039	60.5	0.0009	0.0052	(0.0001)	0.0004	0.036	(0.0003)	(0.011)	0.340	0.0095	0.0011	0.0018
Inconel® 718	BS 718D	0.631	0.0011	0.0041	0.037	0.368	18.32	0.071	18.51	0.0038	0.100	3.00	0.0084	5.16	52.5	0.0015	0.0083	(0.00006)	0.0004	0.072	0.0020	(0.0022)	0.93	0.038	0.049	(0.002)
Inconel® X750	BS 750A	.	.	0.0033	0.047	0.29	15.68	0.04	7.07	.	0.09	0.22	.	1.07	71.9	.	(0.005)	.	0.0007	0.10	.	.	2.60	0.046	.	.
Inconel® 800	BS 800A	0.362	(0.002)	0.0018	0.075	0.069	21.09	0.244	42.7	0.0022	0.883	0.117	0.0126	0.021	33.3	0.0014	0.013	(0.001)	(0.0007)	(0.0005)	0.361	0.0041	0.526	0.058	(0.030)	(0.002)
Inconel® 825	BS 825E	0.080	.	0.0025	0.010	0.26	21.87	1.72	31.45	.	0.51	2.74	0.0105	0.19	39.92	(0.004)	0.015	.	0.0010	0.24	.	.	0.82	0.049	0.166	.
Inconel® 925	BS 925	0.17	.	0.002	0.011	0.34	20.82	1.74	26.92	.	0.50	3.00	0.0042	0.23	43.53	(0.0075)	0.016	.	0.0020	0.11	(0.002)	.	2.20	0.03	0.47	.
Hastelloy B	BS H1C	0.15	(0.001)	(0.001)	0.0022	(0.01)	0.70	(0.002)	1.29	(0.0012)	0.51	27.2	(0.0005)	(0.009)	69.8	(0.0009)	(0.0049)	(0.00002)	(0.0004)	(0.01)	(0.002)	(0.009)	(0.008)	(0.02)	(0.009)	(0.001)
Hastelloy C-276	BS H2C	0.124	0.0008	0.0008	0.0027	0.178	16.14	0.116	5.99	0.0061	0.415	15.36	0.0126	0.032	58.3	0.0012	0.0086	0.00014	0.00030	0.031	0.0011	Ca:4ppm	0.0172	0.0222	3.25	Sb:6ppm
Hastelloy X	BS H3C	0.149	(0.003)	0.0020	0.087	1.37	21.50	0.106	19.54	0.0020	0.492	8.82	0.0266	0.095	46.6	0.0013	0.0150	.	(0.0003)	0.36	0.0019	(0.0001)	(0.0064)	0.047	0.623	(0.005)
Hastelloy C-22	BS H4B	0.23	(0.0015)	0.0016	(0.008)	0.079	22.3	0.035	3.45	0.0010	0.226	14.05	0.0118	(0.1)	55.9	0.0007	0.0054	.	0.0005	(0.0035)	(0.0007)	.	0.050	0.0063	3.20	.
Hastalloy	BS 192B	1.37	.	0.0053	0.041	12.41	19.46	0.015	1.17	0.0032	0.0240	3.87	0.0038	0.069	58.4	0.0006	0.0031	.	0.0005	0.034	0.0006	(0.001)	3.00	0.071	0.048	0.045
RA 333	BS 197A	0.18	.	0.0019	0.050	3.06	25.11	0.12	18.07	.	1.56	2.99	(0.052)	0.20	44.44	.	0.021	(0.0002)	<0.001	0.96	.	.	0.017	0.051	2.79	.
Alloy 20	BS 187D	0.0164	(0.0035)	0.0026	0.0337	0.089	19.91	3.52	[39.6]	(0.0009)	0.938	2.17	0.046	0.621	32.3	0.0026	0.0155	0.0019	0.0021	0.669	0.0085	0.0008	0.0027	0.073	0.086	(0.0012)

Nickel with brackets [] calculated by difference.

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ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER	ALLOY	ISO?	NUMBER
028		IARM 357A	750		HT 8211X			
20		BS 187B	800, 800HT	17025	BS 800A			
20	17025	BS 187D	800, 800HT	17025	BS 800B			
20		IARM 25D	800, 800HT		IARM 58B			
25-6Mo		IARM Ni256Mo-18	800		IARM Ni800-18			
200	17025	BS 200-1	800		IARM Ni800-19			
200	17025	BS 200-2	800		SRM 1246			
200	17025	BS 200-4	801		HH 5196A			
200	17025	BS 200A	825		13X 08825			
200		IARM 50C	825		219X 08825A			
200		IARM 187A	825	17025	BS 825E			
200		IARM 188A	825	17025	BS 825F			
200		IARM 189A	825		HRT Ni2013			
200		IARM 190A	825		IARM Ni825-18			
200		IARM 191A	825		PV 204/1			
205	17025	BS 200-3	825		SRM 1247			
244H		IARM Ni244H-18	901		SS 387/1			
282		IARM Ni282-18	903		SRM 1250			
330		IARM 7C	904L		IARM 347A			
400		212X 04400	909		IARM 203A			
400	17025	BS 400D	909		IARM Ni909-18			
400		BS 400-1	925		BS 925			
400		BS 400-2	925	17025	BS 925A			
400		BS 400-3	925		IARM Ni925-18			
400		IARM 51D	945		IARM 328A			
400		SS 363/1	945X		IARM 328B			
405 (R405)		BS 405	AL6XN	17025	BS 189A			
405 (R405)	17025	BS 405A	Hastelloy		215X HB4			
405 (R405)		IARM NiR405-20	Hastelloy B		BS H1B			
500		212X 05500	Hastelloy B	17025	BS H1C			
500+Si	17025	BS 500E	Hastelloy B-2		IARM 63D			
500		IARM 52D	Hastelloy B-3		IARM NiB-3			
600		28X 6001	Hastelloy C		HRT Ni2012			
600		28X 6002	Hastelloy C-2000	17025	BS C-2000			
600		28X 6003	Hastelloy C-22	17025	BS H6B			
600		28X 6004	Hastelloy C-22		BS H6C			
600		28X 6005	Hastelloy C-22		HRT NI2014			
600		BS 600-2	Hastelloy C-22		IARM 65D			
600		BS 600-3	Hastelloy C-22HS		IARM 276A			
600		BS 600-4	Hastelloy C-276	17025	BS H2C			
600		BS 600-5	Hastelloy C-276	17025	BS H2E			
600		BS 600-6	Hastelloy C-276		IARM NiC276-18			
600		IARM 53F	Hastelloy G-30	17025	BS G30			
600		PV 202/1	Hastelloy G-30		IARM 67C			
600		SRM 1244	Hastelloy G-35		IARM 329A			
601		IARM 366A	Hastelloy S		IARM NiS-18			
602CA		IARM 338A	Hastelloy X	17025	BS H3C			
6025HT		HRT NI2021	Hastelloy X		BS H3D			
617		BS 617	Hastelloy X		IARM NiX-18			
617	17025	BS 617A	Haynes 214		IARM NiH214-18			
617		IARM 272A	Haynes 230	17025	BS H230			
617		IARM Ni617-18	Haynes 230	17025	BS H230A			
625		28X 6251	Haynes 230		IARM 68E			
625		28X 6252	Haynes 230		IARM 68F			
625	17025	BS 625E	HR-120		IARM 282A			
625	17025	BS 625F	IN 100		IMZ 182			
625		IARM 54H	IN 100		SS 345			
625		ECRM 377-1	IN 100		SS 346A			
625		ECRM 377-2	Incoloy		23X DS5			
625		NCS HS41745	Incoloy		28X 08811			
6255	17025	BS 6255	Incoloy		HH 5157A			
686		IARM 362B	Incoloy		HH 5179A			
686		IARM Ni686-20	Incoloy		HH 5300A			
690	17025	BS 690A	Inconel		28X 6256			
690	17025	BS 690B	Magnetic		SRM 1159			
690		IARM Ni690-18	Magnetic		SRM 1160			
693		IARM 372A	Monel		HRT Ni2019			
713		SS 350	MP 35N		SRM 1775			
718	17025	BS 718D	N-155		IARM NiN155-18			
718		IARM Ni718-20	Nimonic 80A		22X 806			
718		NCS HS41746	Nimonic 80A		CT ISO122A			
718		SRM 1249	PE16		IARM NiPE16-18			
718		SS 351	RA 333		BS 197A			
718		SS 351/1	RA 333		BS 197B			
725		BS 725	Udimet 500		IARM 287A			
725		IARM 274A	Waspaloy		24X 07001			
725		IARM Ni725-18	Waspaloy		24X 7201			
738		IMZ 183A	Waspaloy	17025	BS 199B			
740		IARM 358A	Waspaloy		IARM NiWasp-18			
750	17025	BS 750C	Waspaloy		SRM 1243			
750	17025	BS 750D	X750		IARM 57E			
750		HT 8209X						

Please use the Adobe Acrobat "search" function to find the complete chemistry of these samples listed within this catalog.

The best efforts have been made in the construction of this chart. Some samples do not perfectly fit the alloy specifications, but are considered acceptable for the purposes of calibration and type standardization.

Type	Comment	Al	B	C	Co	Cr	Cu	Fe	Mn	Mo	Nb
20	CB3 Mod	.	.	<0.035	.	19.0-21.0	3.0-4.0	rem	1.5-2.5	2.0-3.0	8\mtC-0.4
20	Mo-6HS	.	.	<0.06	.	22.0-26.0	1.0-3.0	rem	<1.00	5.00-6.70	.
31	N 0.17-0.40	.	.	<0.015	.	26.0-28.0	1.0-1.4	rem	<2.00	6.0-7.0	.
52		<0.10	.	<0.05	<0.50	<0.25	.	rem	<0.60	.	.
59		0.10-0.40	.	<0.010	<0.30	22.0-24.0	<0.50	<1.50	<0.50	15.0-16.5	.
100	V 0.7-1.2	5.00-6.00	0.01-0.02	0.15-0.20	13.0-17.0	8.0-11.0	.	<1.00	<0.20	2.0-4.0	.
102	Mg 0.01-0.05	0.30-0.60	0.003-0.008	<0.08	.	14.0-16.0	.	5.0-9.0	<0.75	2.75-3.25	2.75-3.25
200		.	.	<0.15	.	.	<0.25	<0.40	<0.35	.	.
201		.	.	<0.02	.	.	<0.25	<0.40	<0.35	.	.
205	Mg 0.01-0.08	.	.	<0.15	.	.	<0.15	<0.20	<0.35	.	.
211		.	.	<0.20	.	.	<0.25	<0.75	4.25-5.25	.	.
214	Y 0.002-0.04	4.0-5.0	<0.006	<0.05	<2.0	15.0-17.0	.	2.0-4.0	<0.50	<0.50	.
220	Mg 0.01-0.08	.	.	<0.15	.	.	<0.10	<0.10	<0.20	.	.
225	Mg 0.01-0.08	.	.	<0.15	.	.	<0.10	<0.10	<0.20	.	.
230	Mg 0.04-0.08	.	.	<0.15	.	.	<0.10	<0.10	<0.15	.	.
230	La 0.005-0.05	0.20-0.50	<0.015	0.05-0.15	<5.00	20.0-24.0	.	<3.00	0.30-1.00	1.0-3.0	.
233	Mg 0.01-0.10	.	.	<0.15	.	.	<0.10	<0.10	<0.30	.	.
270	Mg <0.001	.	.	<0.02	<0.001	<0.001	<0.001	<0.005	<0.001	.	.
300	Mg 0.20-0.50	.	.	<0.40	.	.	<0.25	<0.60	<0.50	.	.
301		4.00-4.75	.	<0.30	.	.	<0.25	<0.60	<0.50	.	.
400		.	.	<0.03	.	.	rem	<2.50	<2.00	.	.
401		.	.	<0.10	<0.25	.	.	<0.75	<2.25	.	.
404		<0.05	.	<0.15	.	.	rem	<0.50	<0.10	.	.
502		2.5-3.5	.	<0.10	.	.	rem	<2.00	<1.50	.	.
520		1.8-2.2	<0.010	<0.06	12.0-14.0	18.0-20.0	.	.	.	5.0-7.0	.
600		.	.	<0.15	.	14.0-17.0	<0.50	6.0-10.0	<1.00	.	.
601		1.0-1.7	.	<0.10	.	21.0-25.0	<1.00	rem	<1.00	.	.
603GT	Y 0.05-0.15	2.4-3.0	.	0.20-0.40	.	24.0-26.0	<0.50	8.0-11.0	<0.15	.	.
617		0.80-1.50	<0.006	0.05-0.15	10.0-15.0	20.0-24.0	<0.50	<3.00	<1.00	8.0-10.0	.
625		<0.40	.	<0.10	.	20.0-23.0	.	<5.00	<0.50	8.0-10.0	3.15-4.15
625LCF	N <0.02	<0.40	.	<0.03	<1.0	20.0-23.0	.	<5.00	<0.50	8.0-10.0	3.15-4.15
686		.	.	<0.01	.	19.0-23.0	.	<5.00	<0.75	15.0-17.0	.
690		.	.	<0.05	.	27.0-31.0	<0.50	7.0-11.0	<0.50	.	.
702		2.75-3.75	.	<0.10	.	14.0-17.0	<0.50	<2.00	<1.00	.	.
706		<0.40	<0.006	<0.06	.	14.5-17.5	<0.30	rem	<0.35	.	2.5-3.3
713		5.5-6.5	0.005-0.015	0.08-0.20	.	12.0-14.0	.	<2.50	<0.25	3.8-5.2	1.8-2.8
718		0.20-0.80	<0.006	<0.08	<1.0	17.0-21.0	<0.30	rem	<0.35	2.8-3.3	4.75-5.50
718SPF	N <0.01	0.20-0.80	<0.006	<0.05	<1.0	17.0-21.0	<0.30	rem	<0.35	2.8-3.3	4.75-5.25
720		2.0-3.0	<0.02	<0.03	14.0-16.0	15.0-17.0	.	.	.	2.5-3.5	.
721		<0.10	.	<0.07	.	15.0-17.0	<0.20	<8.00	2.00-2.50	.	.
722		0.4-1.0	.	<0.08	.	14.0-17.0	<0.50	5.0-9.0	<1.00	.	.
725		<0.35	.	<0.03	.	19.0-22.5	.	rem	<0.35	7.0-9.5	2.75-4.00
751		0.90-1.50	.	<0.10	.	14.0-17.0	<0.50	5.0-9.0	<1.00	.	0.7-1.2
800		0.15-0.60	.	<0.10	.	19.0-23.0	<0.75	rem	<1.50	.	.
800H		0.15-0.60	.	0.05-0.10	.	19.0-23.0	<0.75	rem	<1.50	.	.
800HT	Al+Ti 0.85-1.20	0.15-0.60	.	0.06-0.10	.	19.0-23.0	<0.75	>39.5	<1.50	.	.
801		.	.	<0.10	.	19.0-22.0	<0.50	rem	<1.50	.	.
802		0.15-1.00	.	0.20-0.50	.	19.0-23.0	<0.75	rem	<1.50	.	.
804		<0.60	.	<0.10	.	28.0-31.0	<0.50	rem	<1.50	.	.
825		<0.02	.	<0.05	.	19.5-23.5	1.5-3.0	rem	<1.00	2.5-3.5	.
901		<0.35	0.010-0.020	<0.10	.	11.0-14.0	<0.50	rem	<1.00	5.00-7.00	.
903		0.30-1.15	<0.012	<0.06	13.0-17.0	<1.0	<0.50	rem	<1.00	.	2.4-3.5
908		0.75-1.25	<0.012	<0.03	<0.50	3.75-4.5	<0.50	rem	<1.00	.	2.7-3.3
926		<0.3	.	<0.04	.	14.0-18.0	3.5-5.5	>39.0	<1.50	2.5-3.5	.
2120	N 0.02-0.15	<0.40	.	<0.010	<0.30	20.0-23.0	<0.50	<1.50	<0.50	19.0-21.0	.

Type	Ni	P	S	Si	Ti	W	Zr
20	CB3 Mod	32.0-36.0	<0.020	<0.015	<0.30	.	.
20	Mo-6HS	33.0-37.2	<0.030	<0.030	<0.50	.	.
31		30.0-32.0	<0.030	<0.005	<0.05	.	.
52		50.5	<0.025	<0.025	<0.30	.	.
59		rem	<0.015	<0.010	<0.10	.	.
100		rem	<0.015	<0.015	<0.20	4.5-5.0	0.03-0.09
102		rem	<0.010	<0.010	<0.40	0.4-0.7	2.72-3.25
200		>99.0	<0.010	<0.010	<0.35	.	.
201		>99.0	<0.010	<0.010	<0.35	.	.
205		>99.0	<0.008	<0.008	<0.15	0.01-0.05	.
211		>93.7	<0.015	<0.015	<0.15	.	.
214		rem	<0.015	<0.015	<0.20	<0.05	<0.05
220		>99.0	<0.008	0.01-0.05	0.01-0.05	.	.
225		>99.0	<0.008	0.15-0.25	0.01-0.05	.	.
230		>99.0	<0.008	0.010-0.035	<0.005	.	.
230		rem	<0.030	<0.015	0.25-0.75	13.0-15.0	.
233		>99.0	<0.008	<0.10	<0.005	.	.
270		>99.97	<0.001	<0.001	<0.001	.	.
300		>97.0	<0.010	<0.35	0.20-0.60	.	.
301		>93.0	<0.010	<1.00	0.25-1.00	.	.
400		63.0-70.0	.	<0.024	<0.50	.	.
401		40.0-45.0	.	<0.015	<0.25	.	.
404		52.0-57.0	.	<0.024	<0.10	.	.
502		63.0-70.0	.	<0.010	<0.50	.	.
520		rem	.	.	2.8-3.2	0.8-1.2	.
600		>72.0	.	<0.015	<0.50	.	.
601		58.0-63.0	.	<0.015	<0.50	.	.
603GT		rem	<0.020	<0.010	<0.50	0.01-0.25	0.01-0.10
617		>44.5	<0.015	<0.015	<1.00	<0.06	.
625		rem	<0.015	<0.015	<0.50	<0.40	.
625LCF		>58.0	<0.015	<0.015	<0.15	<0.40	.
686		rem	<0.040	<0.020	<0.08	0.02-0.25	3.0-4.4
690		>58.0	.	<0.015	<0.50	.	.
702		rem	<0.010	<0.10	<0.70	0.25-1.00	.
706		39.0-44.0	<0.020	<0.015	<0.35	1.5-2.0	.
713		rem	.	<0.50	0.5-1.0	.	0.05-0.15
718		50.0-55.0	<0.015	<0.015	<0.35	0.65-1.15	.
718SPF		50.0-55.0	<0.015	<0.002	<0.35	0.65-1.15	.
720		rem	.	<0.15	4.5-5.5	1.0-2.0	<0.05
721		rem	.	<0.10	2.75-3.35	.	.
722		>70.0	.	<0.010	<0.07	2.00-2.75	.
725		55.0-59.0	<0.015	<0.010	<0.20	1.0-1.7	.
751		>70.0	.	<0.010	<0.50	2.0-2.6	.
800		30.0-35.0	<0.045	<0.015	<1.00	0.15-0.60	.
800H		30.0-35.0	<0.045	<0.015	<1.0	0.15-0.60	.
800HT		30.0-35.0	<0.045	<0.015	<1.0	0.15-0.60	.
801		30.0-34.0	.	<0.015	<1.0	0.75-1.5	.
802		30.0-35.0	.	<0.015	<0.75	0.25-1.25	.
804		39.0-43.0	.	<0.015	<0.75	<1.20	.
825		38.0-46.0	<0.030	<0.030	<0.50	0.6-1.2	.
901		40.0-45.0	.	<0.030	<0.60	2.35-3.10	.
903		36.0-40.0	.	<0.015	<0.35	1.00-1.25	.
908		47.0-51.0	<0.015	<0.005	<0.50	1.2-1.8	.
926		26.0-30.0	<0.015	<0.015	<0.75	1.5-2.3	.
2120		rem	<0.015	<0.010	<0.10	<0.30	.

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FOR 750 see X750 (last chart)

Type	Comment	Al	B	C	Co	Cr	Cu	Fe	Mn	Mo	Nb
ACI CN-7M		.	.	<0.07	.	19.0-22.0	3.0-4.0	rem	<1.50	2.00-3.00	.
ACI CY-40		.	.	<0.40	.	14.0-17.0	.	<11.0	<1.50	.	.
ACI CZ-100		.	.	<1.00	.	.	<1.25	<3.00	<1.50	.	.
ACI HT		.	.	0.35-0.75	.	13.0-17.0	.	rem	<2.00	<0.50	.
ACI HT-30		.	.	0.25-0.35	.	13.0-17.0	.	rem	<2.00	<0.50	.
ACI HT-50		.	.	0.40-0.60	.	15.0-19.0	.	rem	<1.50	<0.50	.
ACI HT-50C		.	.	0.40-0.60	.	13.0-17.0	.	rem	.	<0.50	0.75-1.25
ACI HU		.	.	0.35-0.75	.	17.0-21.0	.	rem	<2.00	<0.50	.
ACI HU-50		.	.	0.40-0.60	.	17.0-21.0	.	rem	<1.50	<0.50	.
ACI HW		.	.	0.35-0.75	.	10.0-14.0	.	rem	<2.00	<0.50	.
ACI HW-50		.	.	0.40-0.60	.	10.0-14.0	.	rem	<1.50	<0.50	.
ACI HX		.	.	0.35-0.75	.	15.0-19.0	.	rem	<2.00	<0.50	.
ACI HX-50		.	.	0.40-0.60	.	15.0-19.0	.	rem	<1.50	<0.50	.
AF2-1DA	Ta 1-2; B, N, O, Pb limits	4.20-4.80	0.01-0.02	0.30-0.35	9.50-10.50	11.5-12.5	.	<1.00	<0.10	2.50-3.50	.
AL-6X		.	.	<0.035	.	20.0-22.0	.	rem	<2.00	6.0-7.0	.
AL-6XN	N 0.18-0.25	.	.	<0.030	.	20.0-22.0	.	rem	<2.00	6.0-7.0	.
Allcorr		<1.50	.	<0.15	<12.0	27.0-33.0	.	.	.	8.0-12.0	<2.00
Alumel		1.75-2.25	.	<0.15	.	.	.	<0.50	2.00-3.00	.	.
ARMCO 20-45-5		.	.	<0.08	.	18.0-22.0	.	rem	3.0-7.0	1.5-3.0	<0.40
Astroloy M	Bi, N, Pb limits	3.85-4.15	0.020-0.030	0.02-0.06	16.0-18.0	14.0-16.0	<0.10	<0.50	<0.15	4.50-5.50	.
B-2		.	.	<0.02	<1.0	<1.0	.	<2.00	<1.00	26.0-30.0	.
B-3	Ni+Mo 94.0-98.0; Ta, V <0.20	<0.50	.	<0.01	<3.0	1.0-3.0	<0.20	1.0-3.0	<3.00	27.0-32.0	<0.20
B-4		0.10-0.50	.	<0.01	<2.5	0.5-1.5	<0.50	1.0-6.0	<1.50	26.0-30.0	.
B-10		<0.5	.	<0.01	<1.0	6.0-10.0	<0.50	5.0-8.0	<1.00	21.0-25.0	.
Be-Ni	Be 1.85-2.05	.	.	.	.	.	.	.	.	.	.
BNi-1	Se <0.005, Other <0.50	<0.05	2.75-3.50	0.6-0.9	<0.10	13.0-15.0	.	4.0-5.0	.	.	.
BNi-1a	Se <0.005, Other <0.50	<0.05	2.75-3.50	<0.06	<0.10	13.0-15.0	.	4.0-5.0	.	.	.
BNi-2	Se <0.005, Other <0.50	<0.05	2.75-3.50	<0.06	<0.10	6.0-8.0	.	2.5-3.5	.	.	.
BNi-3	Se <0.005, Other <0.50	<0.05	2.75-3.50	<0.06	<0.10	.	.	<0.50	.	.	.
BNi-4	Se <0.005, Other <0.50	<0.05	1.50-2.20	<0.06	<0.10	.	.	<1.50	.	.	.
BNi-5	Se <0.005, Other <0.50	<0.05	<0.03	<0.10	<0.10	18.5-19.5	.	.	.	.	.
BNi-5a	Se <0.005, Other <0.50	<0.05	1.0-1.5	<0.10	<0.10	18.5-19.5	.	<0.50	.	.	.
BNi-5b	Se <0.005, Other <0.50	<0.05	1.0-1.6	<0.06	<1.0	14.5-15.5	.	<1.00	.	.	.
BNi-6	Se <0.005, Other <0.50	<0.05	.	<0.01	<0.10	.	.	.	.	.	.
BNi-7	Se <0.005, Other <0.50	<0.05	<0.010	<0.08	<0.10	13.0-15.0	.	<0.20	<0.04	.	.
BNi-8	Se <0.005, Other <0.50	<0.05	.	<0.10	<0.10	.	4.0-5.0	.	21.5-24.5	.	.
BNi-9	Se <0.005, Other <0.50	<0.05	3.25-4.00	<0.06	<0.10	13.5-16.5	.	<1.50	.	.	.
BNi-10	Se <0.005, Other <0.50	<0.05	2.00-3.00	0.40-0.55	<0.10	10.0-13.0	.	2.5-4.5	.	.	.
BNi-11	Se <0.005, Other <0.50	<0.05	2.20-3.10	0.30-0.50	<0.10	9.0-11.75	.	2.5-4.5	.	.	.
BNi-12	Se <0.005	<0.05	<0.02	<0.06	<0.10	24.0-26.0	.	<0.20	.	.	.
BNi-13	Se <0.005	<0.05	2.75-3.50	<0.06	<0.10	7.0-9.0	2.0-3.0	<0.40	.	1.5-2.5	1.5-2.35

Type	Ni	P	S	Si	Ti	W	Zr
ACI CN-7M	27.5-30.5	.	.	<1.50	.	.	.
ACI CY-40	rem	.	.	<3.00	.	.	.
ACI CZ-100	rem	.	.	<2.00	.	.	.
ACI HT	33.0-37.0	<0.040	<0.040	<2.50	.	.	.
ACI HT-30	33.0-37.0	<0.040	<0.040	<2.50	.	.	.
ACI HT-50	33.0-37.0	<0.040	<0.040	0.50-2.00	.	.	.
ACI HT-50C	33.0-37.0	.	.	.	.	.	.
ACI HU	37.0-41.0	<0.040	<0.040	<2.50	.	.	.
ACI HU-50	37.0-41.0	<0.040	<0.040	0.50-2.00	.	.	.
ACI HW	58.0-62.0	<0.040	<0.040	<2.50	.	.	.
ACI HW-50	58.0-62.0	<0.040	<0.040	0.50-2.00	.	.	.
ACI HX	64.0-68.0	<0.040	<0.040	<2.50	.	.	.
ACI HX-50	64.0-68.0	<0.040	<0.040	0.50-2.00	.	.	.
AF2-1DA	rem	<0.015	<0.015	<1.00	2.75-3.25	5.50-6.50	0.05-0.15
AL-6X	23.5-25.5	<0.030	<0.030	<1.00	.	.	.
AL-6XN	23.5-25.5	<0.040	<0.030	<1.00	.	.	.
Allcorr	rem	.	.	.	<1.50	<4.00	.
Alumel	rem	.	.	<1.60	.	.	.
ARMCO 20-45-5	43.0-49.0	<0.045	<0.030	<1.00	.	.	.
Astroloy M	rem	<0.015	<0.015	<0.20	3.35-3.65	<0.05	<0.06
B-2	rem	<0.040	<0.030	<0.10	.	.	.
B-3	>65.0	<0.030	<0.010	<0.10	<0.20	<3.00	<0.10
B-4	rem	<0.040	<0.010	<0.05	.	.	.
B-10	rem	<0.025	<0.010	<0.10	.	.	.
Be-Ni	rem	.	.	.	0.4-0.6	.	.
BNi-1	rem	<0.020	<0.020	4.0-5.0	<0.05	.	<0.05
BNi-1a	rem	<0.020	<0.020	4.0-5.0	<0.05	.	<0.05
BNi-2	rem	<0.020	<0.020	4.0-5.0	<0.05	.	<0.05
BNi-3	rem	<0.020	<0.020	4.0-5.0	<0.05	.	<0.05
BNi-4	rem	<0.020	<0.020	3.0-4.0	<0.05	.	<0.05
BNi-5	rem	<0.020	<0.020	9.75-10.5	<0.05	.	<0.05
BNi-5a	rem	<0.020	<0.020	7.0-7.5	<0.05	.	<0.05
BNi-5b	rem	<0.020	<0.020	7.0-7.5	<0.05	.	<0.05
BNi-6	rem	10.0-12.0	<0.020	.	<0.05	.	<0.05
BNi-7	rem	9.7-10.5	<0.020	<0.10	<0.05	.	<0.05
BNi-8	rem	<0.020	<0.020	6.0-8.0	<0.05	.	<0.05
BNi-9	rem	<0.020	<0.020	.	<0.05	.	<0.05
BNi-10	rem	<0.020	<0.020	3.0-4.0	<0.05	15.0-17.0	<0.05
BNi-11	rem	<0.020	<0.020	3.25-4.25	<0.05	11.50-12.75	<0.05
BNi-12	rem	9.0-11.0	<0.020	<0.10	<0.05	.	<0.05
BNi-13	rem	<0.020	<0.020	3.8-4.8	<0.05	.	<0.05

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Type	Comment	Al	B	C	Co	Cr	Cu	Fe	Mn	Mo	Nb
Comm.Pure Ni	Mg <0.005	.	.	<0.02	<0.10	<0.005	<0.01	<0.05	<0.003	.	.
Comm.Pure Ni	Mg, N <0.001; O <0.025	<0.001	.	<0.006	.	<0.001	<0.02	<0.015	<0.001	.	.
Creusot UR SB 8	N 0.17-0.25	.	.	<0.020	.	24.0-26.0	1.0-2.0	rem	<2.00	4.7-5.7	.
CT15C	.	.	.	0.05-0.15	.	19.0-21.0	.	rem	0.15-1.50	.	0.50-1.50
D979	Zr <0.05	0.75-1.30	0.008-0.015	<0.08	.	14.0-16.0	.	rem	<0.75	3.75-4.50	.
Eatonite	.	.	.	2.4	10.0	29.0	.	<6.50	.	.	.
Eatonite 3	.	.	.	1.80-2.20	.	28.0-30.0	.	1.0-8.0	<1.00	4.0-6.0	.
Eatonite 5	.	.	.	1.80-2.20	.	28.0-30.0	.	1.0-8.0	<1.00	7.0-9.0	.
ER330	.	.	.	0.18-0.25	.	15.0-17.0	<0.75	rem	1.0-2.5	<0.75	.
ERNi-C1	Other <1.00	.	.	<1.00	.	.	<4.00	<4.00	<2.50	.	.
ERNiCr-6	Pb <0.010	<0.40	.	0.08-0.15	.	19.0-21.0	<0.50	<2.00	<1.00	.	.
ERNiCr-A	Se <0.005	.	2.00-3.00	0.30-0.60	<1.50	8.0-14.0	.	1.25-3.25	.	.	.
ERNiCr-C	Se <0.005	.	2.00-4.00	0.40-0.80	<1.25	10.0-16.0	.	3.0-5.0	.	.	.
ERNiCr-C	Se <0.005	.	2.50-4.50	0.50-1.00	<1.0	12.0-18.0	.	3.5-5.5	.	.	.
ERNiCr-D	.	.	0.35-0.60	0.6-1.1	<0.10	8.0-12.0	.	1.0-5.0	.	.	.
ERNiCr-E	Sn 0.5-0.9	.	0.7-1.4	0.1-0.5	<0.10	15.-20.	.	3.5-7.5	.	.	.
ERNiCrMo-5A	V <0.40	.	.	<0.12	.	14-18	.	4.0-7.0	<1.00	14-18	.
ERNi-Cu-8	Pb <0.010	2.0-4.0	.	<0.25	.	.	rem	<2.00	<1.50	.	.
ERNiFeMn-C1	Other <1.00	<1.00	.	<0.50	.	.	<2.50	rem	10.0-14.0	.	.
ERNiMo-8	.	.	.	<0.10	.	0.5-3.5	<0.50	.	<1.00	18.0-21.0	.
ERNiMo-9	.	<1.00	.	<0.10	.	.	0.3-1.3	.	<1.00	19.0-22.0	.
Filler 72	Other <0.50	.	.	0.01-0.10	.	42.0-46.0	<0.50	<0.50	<0.20	.	.
FM 52	Al+Ti <1.50	<1.10	.	<0.04	.	28.0-31.5	<0.30	7.0-11.0	<1.00	<0.50	<0.10
FM60	.	<1.25	.	<0.15	.	.	rem	<2.50	<4.00	.	.
FM61	.	<1.50	.	<0.15	.	.	<0.25	<1.00	<1.00	.	.
FM65	<0.20	.	.	<0.05	.	19.5-23.5	1.5-3.0	>22.0	<1.00	2.5-3.5	.
FM69	0.40-1.00	.	.	<0.08	.	14.0-17.0	<0.50	5.0-9.0	<1.00	>70.0	0.7-1.2
FM82	.	.	.	<0.10	.	18.0-22.0	<0.50	<3.00	2.5-3.5	.	2.0-3.0
FM92	.	.	.	<0.08	.	14.0-17.0	<0.50	<8.00	2.00-2.75	.	.

Type	Ni	P	S	Si	Ti	W
Comm.Pure Ni	>99.9	.	<0.003	<0.005	<0.005	.
Comm.Pure Ni	rem	.	<0.0008	<0.001	.	.
Creusot UR SB 8	24.0-26.0	<0.025	<0.010	<0.50	.	.
CT15C	31.0-34.0	<0.030	<0.030	0.50-1.50	.	.
D979	42.0-48.0	<0.015	<0.015	<0.75	2.70-3.30	3.75-4.50
Eatonite	39.0	.	.	0.70	.	15.0
Eatonite 3	rem	<0.030	<0.030	0.8-1.2	.	.
Eatonite 5	rem	<0.030	<0.030	0.80-1.20	.	.
ER330	34.0-37.0	<0.030	<0.030	0.30-0.65	.	.
ERNi-C1	rem	.	<0.030	<0.75	.	.
ERNiCr-6	>75.0	<0.030	<0.015	<0.30	0.15-0.50	.
ERNiCr-A	rem	.	.	1.25-3.25	.	.
ERNiCr-C	rem	.	.	3.0-5.0	.	.
ERNiCr-C	rem	.	.	3.5-5.5	.	.
ERNiCr-D	rem	.	.	4.0-6.6	.	1.0-3.0
ERNiCr-E	.	.	.	5.5-8.0	.	0.5-1.5
ERNiCrMo-5A	rem	.	.	<1.00	.	3.0-5.0
ERNi-Cu-8	63.0-70.0	<0.030	<0.015	<1.00	0.25-1.00	.
ERNiFeMn-C1	35.0-45.0	.	<0.030	<1.00	.	.
ERNiMo-8	>60.0	<0.015	<0.015	<0.50	.	2.0-4.0
ERNiMo-9	>65.0	<0.015	<0.015	<0.50	.	2.0-4.0
Filler 72	rem	<0.020	<0.015	<0.20	0.3-1.0	.
FM 52	rem	.	<0.015	<0.50	<1.00	.
FM60	62.0-69.0	<0.020	<0.015	<1.25	1.5-3.0	.
FM61	>93.0	<0.030	<0.015	<0.75	2.0-3.5	.
FM65	38.0-46.0	<0.030	<0.030	<0.50	0.60-1.2	.
FM69	.	<0.030	<0.015	<0.50	2.00-2.75	.
FM82	>67.0	<0.030	<0.015	<0.50	<0.75	.
FM92	>67.0	<0.030	<0.015	<0.35	2.50-3.50	.

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Type	Comment	Al	B	C	Co	Cr	Cu	Fe	Mn	Mo
Hastelloy B	V <0.60	.	.	<0.12	<2.5	<1.00	.	<6.00	<1.00	26.0-33.0
Hastelloy C	V <0.35	.	.	<0.08	<2.5	14.5-16.5	.	4.0-7.0	<1.00	15.0-17.0
Hastelloy C-4	.	.	.	<0.015	<2.0	14.0-18.0	<3.00	.	<1.00	14.0-17.0
Hastelloy C-22	V <0.35	.	.	<0.015	<2.5	20.0-22.5	.	2.0-6.0	<0.50	12.5-14.5
Hastelloy C-276	V <0.35	.	.	<0.02	<2.5	14.5-16.5	.	4.0-7.0	<1.00	15.0-17.0
Hastelloy C-2000	.	<0.50	.	<0.010	<2.0	22.0-24.0	1.3-1.9	<3.00	<0.50	15.0-17.0
Hastelloy F	.	.	.	<0.05	<2.5	21.0-23.0	.	rem	1.0-2.0	5.5-7.5
Hastelloy G	.	.	.	<0.05	<2.5	21.0-23.5	1.5-2.5	18.0-21.0	1.0-2.0	5.5-7.5
Hastelloy G-2	.	.	.	<0.03	.	23.0-26.0	0.7-1.2	rem	<1.00	5.0-7.0
Hastelloy G-3	Nb+Ta <0.50	.	.	<0.015	<5.0	21.0-23.5	1.5-2.5	18.0-21.0	<1.00	6.0-8.0
Hastelloy G-30	.	.	.	<0.03	<5.00	28.0-31.5	1.0-2.4	13.0-17.0	<1.50	4.0-6.0
Hastelloy G-50	.	.	.	<0.015	<2.5	19.0-21.0	<0.50	15.0-20.0	<1.00	8.0-10.0
Hastelloy H-9M	.	.	.	<0.03	<5.0	20.5-23.0	.	17.0-20.0	<1.00	8.0-10.0
Hastelloy N	V <0.50	<0.50	<0.010	0.04-0.08	<0.20	6.0-8.0	<0.35	<5.00	<1.00	15.0-18.0
Hastelloy S	La 0.01-0.10	0.10-0.50	<0.015	<0.02	<2.0	14.5-17.0	<0.35	<3.00	0.30-1.00	14.0-16.5
Hastelloy W	V <0.60	.	.	<0.12	.	4.00-6.00	.	4.0-7.0	<1.00	23.0-26.0
Hastelloy X	.	.	.	0.05-0.15	0.5-2.5	20.5-23.0	.	17.0-20.0	<1.00	8.0-10.0
Haynes 20 Mod	.	.	.	<0.05	.	21.0-23.0	.	rem	<2.50	4.0-6.0
Haynes 230	La <0.050	0.20-0.50	<0.003	0.05-0.15	<3.0	20.0-24.0	<0.50	<3.00	0.3-1.0	1.0-3.0
Haynes 242	.	<0.50	<0.006	<0.03	<1.0	7.0-9.0	<0.50	<2.00	<0.80	24.0-26.0
HL	.	.	.	0.20-0.60	.	28.0-32.0	.	rem	<2.00	<0.50
HL-30	.	.	.	0.25-0.35	.	28.0-32.0	.	rem	<1.50	<0.50
HL-40	.	.	.	0.35-0.45	.	28.0-32.0	.	rem	<1.50	<0.50
HP	.	.	.	0.35-0.75	.	24.0-28.0	.	rem	<2.00	<0.50
HR-120	N 0.15-0.30	<0.40	<0.010	0.02-0.1	<3.0	23.0-27.0	<0.50	rem	<1.50	<2.50
HR-160	.	.	.	<0.15	27.0-33.0	26.0-30.0	.	<3.50	<1.50	<1.0
HT	.	.	.	0.35-0.75	.	15.0-19.0	.	rem	<2.00	.
HT-30	.	.	.	0.25-0.35	.	13.0-17.0	.	rem	<2.00	<0.50
INCO 032	.	.	.	<0.03	.	20.0-23.0	.	rem	<1.00	4.0-5.0
Inconle FM62	.	.	.	<0.035	.	14.0-17.0	<0.50	6.0-10.0	<1.00	.
JS 700	Pb <0.005, Sn <0.035	.	.	<0.04	.	19.0-23.0	<0.50	rem	<2.00	4.3-5.0
K500	.	2.30-3.15	.	<0.25	.	.	rem	<2.00	<1.50	.
M220C	Be 1.80-2.30	.	.	0.30-0.50	.	.	.	.	.	.
M252	.	0.75-1.25	0.003-0.01	0.10-0.20	9.0-11.0	18.0-20.0	.	<5.00	<0.50	9.0-10.5
MA754	Y2O3 0.5-0.7	0.20-0.50	.	<0.05	.	19.0-23.0	.	<2.50	.	.
MAR-M-Alloy	Hf 1.50-2.0, Ta 1.25-1.75	5.25-5.75	0.01-0.02	0.13-0.17	9.0-10.0	8.0-10.0	<0.10	<1.00	<0.20	2.25-2.75
MAT21	Ta 1.5-2.2, V <0.35	.	.	<0.015	<1.0	18.0-20.0	<1.00	<0.50	<0.50	18.0-20.0

Type	Nb	Ni	P	S	Si	Ta	Ti	W	Zr
Hastelloy B	.	rem	<0.040	<0.030	<1.00	.	.	.	.
Hastelloy C	.	rem	<0.040	<0.030	<1.00	.	.	3.0-4.5	.
Hastelloy C-4	.	rem	<0.040	<0.030	<0.08	.	<0.70	.	.
Hastelloy C-22	.	rem	<0.020	<0.020	<0.08	.	.	2.5-3.5	.
Hastelloy C-276	.	rem	<0.030	<0.030	<0.08	.	.	3.0-4.5	.
Hastelloy C-2000	.	rem	<0.025	<0.010	<0.08	.	.	.	.
Hastelloy F	1.8-2.5	44.0-47.0	<0.040	<0.010	<1.00	.	<0.03	<1.00	.
Hastelloy G	1.75-2.50	rem	<0.040	<0.030	<1.0	.	.	<1.00	.
Hastelloy G-2	.	47.0-52.0	<0.030	<0.030	<1.00	.	0.7-1.5	.	.
Hastelloy G-3	.	rem	<0.040	<0.030	<1.00	.	.	<1.00	.
Hastelloy G-30	0.3-1.5	rem	<0.040	<0.020	<0.8	.	.	1.5-4.0	.
Hastelloy G-50	<0.50	>50.0	<0.010	<0.015	<1.00	.	.	<1.00	.
Hastelloy H-9M	.	rem	<0.040	<0.030	<1.00	.	.	1.0-2.0	.
Hastelloy N	.	rem	<0.015	<0.020	<1.00	.	.	<0.50	.
Hastelloy S	.	rem	<0.020	<0.015	0.20-0.75	.	.	<1.00	.
Hastelloy W	.	rem	<0.050	<0.050	<1.00	.	.	.	.
Hastelloy X	.	rem	<0.040	<0.030	<1.00	.	.	0.2-1.0	.
Haynes 20 Mod	.	25.0-27.0	<0.040	<0.030	<1.0	.	4\mtC min	.	.
Haynes 230	.	rem	<0.030	<0.015	0.25-0.75	.	.	13.0-15.0	.
Haynes 242	.	rem	<0.030	<0.015	<0.80	.	.	.	.
HL	.	16.0-22.0	<0.040	<0.040	<2.00	.	.	.	.
HL-30	.	18.0-22.0	<0.040	<0.040	0.50-2.00	.	.	.	.
HL-40	.	18.0-22.0	<0.040	<0.040	0.50-2.00	.	.	.	.
HP	.	35.0-37.0	<0.040	<0.040	<2.50	.	.	.	.
HR-120	0.4-0.9	35.0-39.0	<0.040	<0.030	<1.00	.	<0.20	<2.50	.
HR-160	<1.00	rem	<0.030	<0.015	2.4-3.0	.	0.20-0.80	<1.00	.
HT	.	33.0-37.0	<0.040	<0.050	<2.50	.	.	.	.
HT-30	.	33.0-37.0	<0.040	<0.040	<2.50	.	.	.	.
INCO 032	.	30.0-34.0	<0.030	<0.005	<0.05	.	.	.	.
Inconle FM62	1.0-3.0	>72.0	<0.030	<0.015	<0.50	.	.	.	.
JS 700	8*C <0.50	24.0-26.0	<0.040	<0.030	<1.00	.	.	.	.
K500	.	63.0-70.0	.	<0.010	<0.05	.	0.35-0.85	.	.
M220C	.	rem	.	.	.	.	.	.	.
M252	.	rem	<0.015	<0.015	<0.50	.	2.25-2.75	.	.
MA754	.	rem	.	.	.	.	0.3-0.6	.	.
MAR-M-Alloy	.	rem	.	<0.015	<0.20	1.25-1.75	1.25-1.75	9.0-11.0	0.03-0.08
MAT21	.	rem	<0.020	<0.020	<0.08

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Type	Comment	Al	B	C	Co	Cr	Cu	Fe	Hf	Mn
N03260	ThO ₂ 1.80-2.60	.	.	<0.02	<0.20	<0.05	<0.15	<0.05	.	.
N04019	.	.	.	<0.25	.	.	27.0-31.0	<2.50	.	<1.50
N04020	.	<0.50	.	<0.35	.	.	26.0-33.0	<2.50	.	<1.50
N04406	.	<0.10	.	<0.25	.	.	26.0-28.0	<2.00	.	<1.50
N06602	.	.	.	<0.02	.	14.0-17.0	<0.50	6.0-10.0	.	<1.00
N07002	nominal concentrations	0.05	.	0.05	0.50	16.00	.	.	.	2.30
N07013	Other 7.3-7.7	3.20-3.60	0.010-0.020	0.07-0.20	8.50-9.50	12.2-13.0	.	<0.50	0.75-1.05	<0.10
N07048	.	0.40-0.90	.	<0.015	<2.0	20.0-23.5	1.0-2.2	18.0-21.0	.	<0.80
N07626	N <0.05	0.40-0.80	.	<0.05	<1.0	20.0-23.0	<0.50	<6.00	.	<0.50
N07716	.	<0.35	.	<0.03	.	19.0-22.0	.	rem	.	<0.20
N07752	Nb+Ta 0.70-1.20, V <0.10	0.40-1.00	.	0.020-0.060	<0.050	14.5-17.0	<0.50	5.0-9.0	.	<1.00
N07924	Mg <0.005, N <0.02	<0.75	.	<0.020	<3.0	20.5-22.5	1.0-4.0	7.0-13.0	.	<0.20
N08021	Nb+Ta 8\mtc-1.0	.	.	<0.07	.	19.0-21.0	3.0-4.0	rem	.	<2.50
N08022	Nb+Ta 8\mtc-1.0	.	.	<0.025	.	19.0-21.0	3.0-4.0	rem	.	1.5-2.0
N08024	.	.	.	<0.03	.	22.5-25.0	0.5-1.5	rem	.	<1.00
N08221	.	<0.20	.	<0.025	.	20.0-22.0	1.5-3.0	rem	.	<1.00
N08310	N 0.20-0.40	.	.	<0.02	.	24.0-26.0	.	rem	.	2.00-4.00
N08421	.	<0.2	.	<0.025	.	20.0-22.0	1.5-2.0	rem	.	<1.00
N08535	.	.	.	<0.03	.	24.0-27.0	<1.50	rem	.	<1.00
N08826	.	.	.	<0.05	.	19.5-23.5	1.5-3.5	>22.0	.	<1.00
N08904	.	.	.	<0.020	.	19.0-23.0	1.0-2.0	rem	.	<2.00
N08925	N 0.10-0.20	.	.	<0.020	.	19.0-21.0	0.8-1.5	rem	.	<1.00
N08926	N 0.15-0.25	.	.	<0.020	.	19.0-21.0	0.5-1.5	rem	.	<2.00
N09925	.	0.10-0.50	.	<0.03	.	19.5-23.5	1.5-3.0	>22.0	.	<1.00
N13009	Bi <0.5 ppm, Pb <10 ppm	4.75-5.25	0.010-0.020	0.12-0.17	9.00-11.00	8.0-10.0	<0.10	<1.50	.	<0.20
N13010	Bi, Pb <0.5 ppm; Ta 4-5	5.75-6.25	0.010-0.020	0.08-0.13	9.50-10.50	7.50-8.50	.	<0.35	.	<0.20
N13020	Bi <0.5 ppm	3.75-4.75	0.025-0.035	0.03-0.10	17.0-20.0	14.0-16.0	<0.10	<2.00	.	<0.15
N13021	Ag, Bi, Pb limits	4.5-4.9	0.003-0.010	0.12-0.17	18.0-22.0	14.0-15.7	<0.20	<1.00	.	<1.00
N14076	.	.	.	<0.05	<0.50	2.0-3.0	4.0-6.0	rem	.	<1.50
N14080	.	.	.	<0.05	<0.50	<0.30	<0.30	rem	.	<0.80
N19907	.	<0.20	<0.012	<0.06	12.0-16.0	<1.0	<0.50	rem	.	<1.00
N19909	.	<0.15	.	<0.06	12.0-16.0	<1.00	<0.50	rem	.	<1.00
N22000	.	.	.	<0.12	.	<1.0	2.0-4.0	.	.	<1.50
N24025	.	.	.	<0.25	.	.	27.0-33.0	<3.50	.	<1.50
N24030	.	.	.	<0.30	.	.	27.0-33.0	<3.50	.	<1.50
N24130	.	.	.	<0.30	.	.	26.0-33.0	<3.50	.	<1.50
N24135	.	.	.	<0.35	.	.	26.0-33.0	<3.50	.	<1.50
N26022	V <0.35	.	.	<0.02	.	20.0-22.5	.	2.0-6.0	.	<1.00
N26055	Bi, Sn 3.0-5.0	.	.	<0.05	.	11.0-14.0	.	<2.00	.	<1.50
N26455	.	.	.	<0.02	.	15.0-17.5	.	<2.00	.	<1.00
N26625	.	.	.	<0.06	.	20.0-23.0	.	<5.00	.	<1.00
N26641	.	.	1.2-2.0	0.2-0.8	.	10.0-15.0	.	2.0-5.0	.	.
N26985	Nb+Ta <0.5	.	.	<0.02	<5.0	21.5-23.5	1.5-2.5	18.0-21.0	.	<1.00
N28825	.	.	.	<0.05	.	19.5-23.5	1.5-3.0	28.0-32.0	.	<1.00
N30002	V 0.2-0.4	.	.	<0.12	.	15.5-17.5	.	4.5-7.5	.	<1.00
N30007	.	.	.	<0.07	.	<1.0	.	<3.00	.	<1.00
N30012	V 0.2-0.6	.	.	<0.12	.	<1.00	.	4.0-6.0	.	<1.00
N30107	.	.	.	<0.07	.	17.0-20.0	.	<3.00	.	<1.00
N94620	Mg <0.010	<0.01	.	<0.02	25 nom	<0.03	<0.20	rem	.	<0.14
N94630	Mg <0.010	<0.01	.	<0.02	17 nom	<0.03	<0.20	rem	.	<0.35

Type	Mo	Nb	Ni	P	S	Si	Ta	Ti	W	Zr
N03260	.	.	rem	.	<0.0025	.	.	<0.05	.	.
N04019	.	.	>60.0	.	<0.015	3.5-4.5	.	.	.	.
N04020	.	.	rem	.	.	<2.00	.	.	.	.
N04406	.	.	rem	.	.	<0.025	.	.	.	.
N06602	.	.	>72.0	.	<0.015	<0.50	.	.	.	.
N07002	.	.	rem	.	.	0.05	.	3.10	.	.
N07013	1.70-2.10	<0.10	rem	<0.015	<0.015	<0.10	3.85-4.5	3.85-4.15	3.85-4.50	0.05-0.15
N07048	5.0-7.0	<0.05	rem	<0.020	<0.010	<0.10	.	1.5-2.1	.	.
N07626	8.0-10.0	4.50-5.50	rem	<0.020	<0.015	<0.50	.	<0.60	.	.
N07716	7.0-9.5	2.75-4.00	57.0-63.0	<0.015	<0.010	<0.20	.	1.0-1.6	.	.
N07752	.	.	>70.0	<0.008	<0.003	<0.50	.	2.25-2.75	.	<0.05
N07924	5.50-7.00	2.75-3.50	>52.0	<0.030	<0.005	<0.20	.	1.0-2.0	<0.50	.
N08021	2.0-3.0	.	32.0-36.0	<0.030	<0.030	<0.60	.	.	.	.
N08022	2.0-3.0	.	32.0-36.0	<0.015	<0.020	<0.15	.	.	.	.
N08024	3.50-5.00	0.15-0.35	35.0-40.0	<0.035	<0.035	<0.50	.	.	.	.
N08221	5.00-6.50	.	36.0-46.0	.	<0.030	<0.50	.	0.6-1.0	.	.
N08310	2.00-4.00	.	18.0-22.0	<0.035	<0.015	<0.05	.	.	.	.
N08421	5.0-6.5	.	39.0-41.0	<0.030	<0.030	<0.50	.	0.6-1.0	.	.
N08535	2.5-4.0	.	29.0-36.5	<0.030	<0.030	<0.50	.	.	.	.
N08826	2.5-3.5	0.6-1.2	38.0-44.0	<0.030	<0.030	<1.00	.	.	.	.
N08904	4.00-5.00	.	23.0-28.0	<0.045	<0.035	<1.00	.	.	.	.
N08925	6.0-7.0	.	24.0-26.0	<0.045	<0.030	<0.50	.	.	.	.
N08926	6.0-7.0	.	24.0-26.0	<0.030	<0.010	<0.50	.	.	.	.
N09925	2.50-3.50	<0.50	38.0-46.0	<0.030	<0.030	<0.50	.	1.9-2.4	.	.
N13009	.	0.75-1.25	rem	.	<0.015	<0.20	.	1.75-2.25	11.5-13.5	0.03-0.08
N13010	5.75-6.25	.	rem	<0.015	<0.015	<0.25	.	0.8-1.2	<0.10	0.05-0.10
N13020	4.50-5.50	.	rem	.	.	.	.	2.75-3.75	.	<0.06
N13021	4.5-5.5	.	rem	.	<0.015	<1.0	.	0.9-1.5	.	.
N14076	<0.50	.	75.0-78.0	<0.020	<0.010	<0.50	.	.	.	.
N14080	3.5-6.0	.	79.0-82.0	<0.020	<0.010	<0.50	.	.	.	.
N19907	.	4.3-5.2	35.0-40.0	<0.015	<0.015	<0.35	.	1.2-1.8	.	.
N19909	.	4.3-5.2	35.0-40.0	<0.015	<0.015	0.25-0.50	.	1.3-1.8	.	.
N22000	.	.	rem	<0.030	<0.030	8.5-10.0	.	.	.	.
N24025	.	.	rem	<0.030	<0.030	3.5-4.5	.	.	.	.
N24030	.	.	rem	<0.030	<0.030	2.7-3.7	.	.	.	.
N24130	.	1.0-3.0	rem	<0.030	<0.030	1.0-2.0	.	.	.	.
N24135	.	<0.50	rem	<0.030	<0.030	<1.25	.	.	.	.
N26022	12.5-14.5	.	rem	<0.025	<0.025	<0.80	.	.	2.5-3.5	.
N26055	2.0-3.5	.	rem	<0.030	<0.030	<0.50	.	.	.	.
N26455	15.0-17.5	.	rem	<0.030	<0.030	<0.80	.	.	<1.00	.
N26625	8.0-10.0	3.15-4.50	rem	<0.015	<0.015	<1.00	.	.	.	.
N26641	.	.	rem	.	.	1.2-5.0	.	.	.	.
N26985	6.0-8.0	.	rem	<0.025	<0.030	<1.00	.	<1.50	.	.
N28825	2.5-3.5	0.7-1.0	rem	<0.030	<0.030	0.75-1.20	.	.	.	.
N30002	16.0-18.0	.	rem	<0.040	<0.030	<1.00	.	.	3.75-5.25	.
N30007	30.0-33.0	.	rem	<0.040	<0.030	<1.00	.	.	.	.
N30012	26.0-30.0	.	rem	<0.040	<0.030	<1.00	.	.	.	.
N30107	17.0-20.0	.	rem	<0.040	<0.030	<1.00	.	.	.	.
N94620	<0.06	.	27 nom	<0.006	<0.006	<0.15	.	<0.01	.	<0.01
N94630	<0.06	.	29 nom	<0.006	<0.006	<0.15	.	<0.01	.	<0.01

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Type	Comment	Al	B	C	Co	Cr	Cu	Fe	Mn
Ni-20 Cr +Nb		.	.	<0.15	.	19.0-21.0	.	<1.00	<2.50
NIC 52		.	.	<0.03	.	23.0-27.0	0.5-1.0	rem	<1.00
NIC42M		.	.	<0.03	.	20.0-23.0	1.5-3.0	rem	<1.00
Nichrome		.	.	<0.15	.	14.0-18.0	.	rem	<1.00
Nichrome V		.	.	<0.15	.	19.0-21.0	.	<1.00	<2.50
Nicofer 45	0.05-0.15 rare earths with 50% Ce	.	.	0.05-0.12	.	26.0-29.0	<0.30	21.0-25.0	<1.00
Nicofer 6219Si		<0.50	.	<0.05	<1.0	18.0-22.0	<0.50	2.0-4.0	<0.50
Ni-Cr 30		<0.20	.	<0.15	.	29.0-31.0	.	<1.00	<0.10
Nicofer 5020hMo	N 0.05-0.20, Other <0.50	0.50-0.50	.	<0.03	.	18.0-21.0	.	12.0-16.0	<0.50
Nicofer 6025 HT	Y 0.05-0.12	1.8-2.4	.	0.15-0.25	.	24.0-26.0	<0.10	8.0-11.0	<0.15
Ni-Cu		.	.	<0.04	.	.	28.0-34.0	<2.50	<2.00
Nimonic 263	Al+Ti 2.4-2.8	0.30-0.60	.	0.04-0.08	19.0-21.0	19.0-21.0	<0.20	<0.70	<0.60
Nimonic 75		.	.	0.08-0.15	.	18.0-21.0	<0.50	<5.00	<1.00
Nimonic 80A		1.0-1.8	<0.008	<0.10	<2.0	18.0-21.0	<0.20	<3.00	<1.00
Nimonic 90		0.8-2.0	.	<0.13	15.0-21.0	18.0-21.0	.	<3.00	<1.00
Ni-Span-C 902		0.30-0.80	.	<0.06	.	4.90-5.75	.	rem	<0.80
Nitiono 55	H <0.005, O <0.05	.	.	<0.07	<0.05	<0.01	<0.01	<0.05	.
PH3	Mo+0.5W = 2.5-5.5	<2.00	.	<0.03	.	18.0-27.0	.	rem	<1.00
PH6		<2.00	.	<0.03	.	12.0-22.0	.	rem	<1.00
PH7		<0.35	.	<0.03	.	14.0-19.0	.	rem	<1.00
Pyromet 31		1.00-1.70	0.003-0.007	0.03-0.06	.	22.0-23.0	.	rem	<0.20
Pyromet 31V		1.15-1.40	.	0.03-0.06	<1.0	22.3-22.9	.	rem	.
R405		.	.	<0.30	.	.	rem	<2.50	<2.00
RA 330	Pb <0.005, Sn <0.025	.	.	<0.08	.	17.0-20.0	<1.00	rem	<2.00
RA 330-04		.	.	0.18-0.29	.	17.0-20.0	<0.50	rem	4.25-6.5
RA 330TX	Pb <0.005, Sn <0.025	0.10-0.50	.	0.05-0.10	.	17.0-20.0	<1.00	rem	<2.00
RA 333	Pb <0.025, Sn <0.025	.	.	<0.08	2.5-4.0	24.0-27.0	<0.50	rem	<2.00
Rene 41		1.40-1.80	0.003-0.010	<0.12	10.0-12.0	18.0-20.0	.	<5.00	<0.10
Sanicro 28		.	.	<0.03	.	26.0-28.0	0.6-1.4	rem	<2.50
SM2035		.	.	<0.03	.	20.5-23.5	<0.70	rem	<1.00
SM2050		.	.	<0.02	.	20.0-23.0	0.25-1.25	rem	<1.00
SM2060Mo		.	.	<0.03	.	19.0-22.0	0.25-1.25	rem	<1.50
SM2550		.	.	<0.03	.	23.0-26.0	<1.20	rem	<1.00
Udimet 500		2.05-3.25	0.003-0.01	<0.15	13.00-20.00	15.0-20.0	<0.15	<4.00	<0.75
Waspaloy		1.20-1.60	0.003-0.01	0.03-0.10	12.00-15.00	18.0-21.0	<0.50	<2.00	<1.00
W-Ni-3		.	.	<0.15	.	.	<0.25	<0.60	<0.35
W-NiAl-1		4.0-6.0	.	.	.	.	.	.	.
W-NiAl-2	Other <1.00	17.0-27.0	.	.	.	.	.	.	.
W-NiCrFe-2		.	.	<0.10	.	14.0-7.0	<0.50	6.0-10.0	<1.00
W-NiCrMo	Other 3.0-4.0+Z86	.	.	.	.	21.0-23.0	.	1.0-2.0	.
W-NiCrTi		.	.	.	.	44-46	.	.	.
X750		0.40-1.00	.	<0.08	.	14.0-17.0	<0.50	5.0-9.0	<1.00
X782	nominal concentrations	.	.	2.00	0.50	26.00	.	4.00	0.30

Type	Mo	Nb	Ni	P	S	Si	Ti	W	Zr
Ni-20 Cr +Nb	.	0.75-1.50	rem	.	<0.010	0.75-1.60	.	.	.
NIC 52	6.0-8.0	.	48.0-56.0	<0.030	<0.003	.	0.6-1.5	.	.
NIC42M	5.0-4.0	.	40.0-44.0	<0.030	<0.003	<0.50	0.6-1.2	.	.
Nichrome	.	.	>57.0	.	<0.010	0.75-1.60	.	.	.
Nichrome V	.	.	rem	.	<0.010	0.75-1.60	.	.	.
Nicofer 45	.	.	>45.0	<0.020	<0.010	2.5-3.0	.	.	.
Nicofer 6219Si	7.0-9.0	.	rem	<0.020	<0.010	0.70-1.10	<0.50	.	.
Ni-Cr 30	.	.	rem	<0.030	<0.010	0.75-1.60	.	.	.
Nicofer 5020hMo	9.5-12.5	0.05-0.60	rem	<0.020	<0.010	<0.50	.	0.05-2.5	.
Nicofer 6025 HT	.	.	rem	<0.020	<0.010	<0.50	0.1-0.2	.	0.01-0.10
Ni-Cu	.	.	>63.0	.	<0.025	<0.50	.	.	.
Nimonic 263	5.6-6.1	.	rem	<0.015	<0.007	<0.40	1.9-2.4	.	.
Nimonic 75	.	.	rem	.	.	<1.00	0.20-0.60	.	.
Nimonic 80A	.	.	rem	<0.045	<0.015	<1.00	1.8-2.7	.	.
Nimonic 90	.	.	rem	.	.	<1.50	1.8-3.0	.	.
Ni-Span-C 902	.	.	41.0-43.5	<0.040	<0.040	<1.0	2.20-2.75	.	.
Nitiono 55	.	<0.025	54.0-57.0	.	.	.	rem	.	.
PH3	2.5-5.5	2.5-6.0	45.0-60.0	<0.030	<0.010	<0.50	<2.00	<0.50	.
PH6	9.0-15.0	4.0-6.0	50.0-60.0	<0.030	<0.010	<0.50	<1.00	0.5-2.5	.
PH7	2.5-5.5	<0.10	34.0-42.0	<0.030	<0.010	<0.50	.	2.0-3.0	.
Pyromet 31	1.70-2.30	0.6-1.2	55.0-58.0	<0.015	<0.015	<0.20	2.10-2.60	.	.
Pyromet 31V	1.70-2.30	0.75-0.95	55.0-58.0	<0.015	<0.015	<0.20	2.10-2.40	.	.
R405	.	.	63.0-70.0	.	0.025-0.060	<0.50	.	.	.
RA 330	.	.	34.0-37.0	<0.030	<0.030	0.75-1.50	.	.	.
RA 330-04	<0.70	.	33.0-37.0	<0.025	<0.020	0.65-1.30	.	.	.
RA 330TX	.	.	34.0-37.0	<0.030	<0.030	0.75-1.50	0.20-0.60	.	.
RA 333	2.50-4.00	.	44.0-47.0	<0.030	<0.030	0.75-1.50	.	2.5-4.0	.
Rene 41	9.0-10.5	.	rem	.	<0.015	<0.50	3.0-3.3	.	.
Sanicro 28	3.0-4.0	.	30.0-34.0	<0.030	<0.030	<1.00	.	.	.
SM2035	4.0-5.0	.	33.0-38.0	<0.030	<0.030	<0.75	.	0.2-0.8	.
SM2050	10.1-12.0	.	50.0-54.0	<0.030	<0.005	<0.09	.	0.25-1.25	.
SM2060Mo	12.0-14.0	0.50-1.25	54.0-60.0	<0.030	<0.005	<0.50	.	0.25-1.25	.
SM2550	6.0-9.0	.	47.0-52.0	<0.030	<0.030	<1.00	<0.69	<3.00	.
Udimet 500	3.0-5.0	.	rem	<0.015	<0.015	<0.75	2.50-3.25	.	.
Waspaloy	3.50-5.00	.	rem	<0.030	<0.030	<0.75	2.75-3.25	.	0.02-0.12
W-Ni-3	.	.	>97.0	.	<0.040	<0.50	.	.	.
W-NiAl-1	.	.	rem	.	.	.	.	.	.
W-NiAl-2	.	.	rem	.	.	.	.	.	.
W-NiCrFe-2	.	.	>72.0	.	<0.020	<0.50	.	.	.
W-NiCrMo	9.0-11.0	.	rem	.	.	.	.	.	.
W-NiCrTi	.	.	rem	.	.	.	3.0-4.0	.	.
X750	.	0.7-1.2	>70.0	.	<0.010	<0.50	2.25-2.75	.	.
X782	.	.	rem	.	.	0.30	.	8.75	.

These are specifications for reference purposes only, not samples for sale.