FQZ Brandenburg GmbH
**Certified Reference Materials**

**Ladle Slag Q 0107**

| Analyte | Certified mean value |
|---|---|
| Fe | 4,04 |
| MnO | 4,47 |
| $P_2O_5$ | 0,710 |
| CaO | 41,99 |
| MgO | 4,92 |
| $Al_2O_3$ | 35,86 |
| $SiO_2$ | 4,29 |
| $Cr_2O_3$ | 0,161 |
| $TiO_2$ | 0,540 |
| $V_2O_5$ | 0,380 |
| $Nb_2O_5$ | 0,020 |
| $Na_2O$ | 0,119 |
| $K_2O$ | 0,021 |
| F | 0,190 |
| C tot. | 0,01 |
| S | 0,059 |
| $CO_2$ | 0,018 |
| $H_2O$-1000°C | (0,09 for your information) |

**Ladle Slag Q 0207**

| Analyte | Certified mean value |
|---|---|
| Fe | 2,72 |
| MnO | 2,09 |
| $P_2O_5$ | 0,178 |
| CaO | 47,40 |
| MgO | 5,35 |
| $Al_2O_3$ | 35,98 |
| $SiO_2$ | 3,72 |
| $Cr_2O_3$ | 0,053 |
| $TiO_2$ | 0,287 |
| $V_2O_5$ | 0,119 |
| $Nb_2O_5$ | 0,010 |
| $Na_2O$ | 0,035 |
| $K_2O$ | 0,013 |
| F | 0,50 |
| C tot. | 0,01 |
| S | 0,114 |
| $CO_2$ | 0,018 |
| $H_2O$-1000°C | (0,11 for your information) |



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**Ladle Slag Q 0398**

| Analyte | Certified mean value |
|---|---|
| Fe | 16,69 |
| MnO | 3,76 |
| $P_2O_5$ | 1,82 |
| CaO | 48,58 |
| MgO | 1,54 |
| $Al_2O_3$ | 1,24 |
| $SiO_2$ | 16,19 |
| $Cr_2O_3$ | 0,243 |
| $TiO_2$ | 0,96 |
| $V_2O_5$ | 0,91 |
| $Nb_2O_5$ | 0,005 |
| SrO | 0,018 |
| $ZrO_2$ | < 0,001 |
| $Na_2O$ | 0,066 |
| $K_2O$ | 0,021 |
| F | 0,098 |
| C tot. | 0,027 |
| S | 0,068 |
| $CO_2$ | < 0,01 |
| $H_2O$-1000°C | 0,064 |



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**Niobium Ore X 1807**

| Analyte | Certified mean value |
|---|---|
| CaO | 13,18 |
| $SiO_2$ | 2,28 |
| Fe | 2,29 |
| MnO | 0,310 |
| $P_2O_5$ | 0,112 |
| $Al_2O_3$ | 0,382 |
| MgO | 0,150 |
| $TiO_2$ | 3,86 |
| $Nb_2O_5$ | 61,95 |
| $ZrO_2$ | 0,868 |
| ZnO | 0,005 |
| $V_2O_5$ | 0,056 |
| $CeO_2$ | 0,567 |
| $La_2O_3$ | 0,150 |
| $Nd_2O_3$ | 0,209 |
| BaO | 0,192 |
| SrO | 1,18 |
| $Ta_2O_5$ | 0,276 |
| $Y_2O_3$ | 0,098 |
| F | 4,12 |
| $K_2O$ | 0,320 |
| $Na_2O$ | 5,42 |
| $U_3O_8$ | 0,190 |
| $ThO_2$ | 0,734 |
| S | 0,052 |
| $H_2O$-900°C | 0,611 |
| $CO_2$ | 0,056 |

**Niobium Ore X 1808**

| Analyte | Certified mean value |
|---|---|
| CaO | 11,67 |
| $SiO_2$ | 3,52 |
| Fe | 5,41 |
| MnO | 0,383 |
| $P_2O_5$ | 0,134 |
| $Al_2O_3$ | 0,614 |
| MgO | 0,177 |
| $TiO_2$ | 3,92 |
| $Nb_2O_5$ | 56,71 |
| $ZrO_2$ | 0,837 |
| ZnO | 0,003 |
| $V_2O_5$ | 0,075 |
| $CeO_2$ | 0,588 |
| $La_2O_3$ | 0,185 |
| $Nd_2O_3$ | 0,214 |
| BaO | 0,277 |
| SrO | 1,31 |
| $Ta_2O_5$ | 0,265 |
| $Y_2O_3$ | 0,074 |
| F- | 4,02 |
| $K_2O$ | 0,463 |
| $Na_2O$ | 4,73 |
| $U_3O_8$ | 0,153 |
| $ThO_2$ | 0,802 |
| S | 0,056 |
| $H_2O$-900°C | 0,668 |
| $CO_2$ | 0,139 |



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