



Certificate of Analysis

Synthetic Iron Ore Calibration Standard

Batch Number: 070708DB

Manufactured by X-Ray Flux Pty Ltd from high purity synthetic compounds according to ISO 9516-1:2003(E) with the extra addition of NaCl and compensating decrease of SiO₂

Syncl. Composition	Concentration	Standard Deviation*
Fe ₂ O ₃	64.020 %	0.050
SiO ₂	7.120 %	0.030
Al ₂ O ₃	4.990 %	0.020
P ₂ O ₅	2.630 %	0.007
SO ₃	2.273 %	0.004
CaO	4.260 %	0.000
TiO ₂	1.500 %	0.000
MgO	5.030 %	0.000
K ₂ O	1.828 %	0.000
Mn ₃ O ₄	1.940 %	0.005
SnO ₂	0.196 %	0.001
V ₂ O ₅	0.193 %	0.001
Cr ₂ O ₃	0.211 %	0.001
Co ₃ O ₄	0.199 %	0.001
NiO	0.193 %	0.001
CuO	0.191 %	0.001
ZnO	0.196 %	0.000
As ₂ O ₃	0.112 %	0.001
PbO	0.193 %	0.004
BaO	0.194 %	0.012
Cl	1.215 %	0.017
Na ₂ O	1.140 %	0.002

The ISO method 9516 does not include sodium or chlorine but these elements were requested by the iron ore industry. The NaCl was dried at 105 degrees C before addition.

The above analytical information is the average of 10 XRF determinations carried out and verified by CSIRO Minerals, South Australia.

* The SD was derived from the homogeneity test work.

X-Ray Flux Pty Ltd

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