

Certified Pulp Iron Ore Reference Material - GIOP-130

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	38.65	0.25	59	+/- 0.06
Fe Calc	%	38.62	0.22	58	+/- 0.06
SiO2	%	19.22	0.14	60	+/- 0.04
Al2O3	%	13.812	0.095	59	+/- 0.025
TiO2	%	0.9328	0.0073	60	+/- 0.0019
Mn	%	0.0637	0.0041	60	+/- 0.0011
CaO	%	2.441	0.026	53	+/- 0.007
P	%	0.0564	0.0019	60	+/- 0.0005
S	%	0.0369	0.0017	58	+/- 0.0005
MgO	%	1.348	0.018	60	+/- 0.005
K2O	%	0.1649	0.0034	60	+/- 0.0009
Zn	%	0.0035	0.0012	43	+/- 0.0004
Pb	%	0.0026	0.0014	30	+/- 0.0005
Cu	%	0.0028	0.0011	35	+/- 0.0004
Ba	%	0.0088	0.0032	35	+/- 0.0011
V	%	0.0183	0.0011	60	+/- 0.0003
Cr	%	0.0084	0.0026	50	+/- 0.0007
Cl	%	0.0034			
As	%	0.0021	0.0014	33	+/- 0.0005
Ni	%	0.0022	0.0011	34	+/- 0.0004
Co	%	0.0013			
Sn	%	0.0044	0.0026	33	+/- 0.0009
Sr	%	0.0087	0.0022	49	+/- 0.0006
Zr	%	0.0188	0.0018	58	+/- 0.0005
Na	%	0.5737	0.0076	59	+/- 0.002
LOI425	%	5.167	0.085	55	+/- 0.023
LOI650	%	5.657	0.069	55	+/- 0.019
LOI1000	%	5.711	0.09	55	+/- 0.025

Control Statistic Details

Control values for this material were determined during a certification program.

Certification Date

This material was certified with the above values on: 15/08/2014

Source Material

Prior to homogenisation and testing, this material was sourced from Composite of Pilbara and Simandou ore

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**Mining Industry Consultants
Reference Material Manufacture and Sales**

Usage

This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

This certified reference material was dried in an oven for a minimum of 8 hours at 105°C. The dry material was pulverised in a "puck and bowl" and then homogenised in a vee-blender. The material is then packaged into 10g plastic packets, ready for shipment.

Certification Testwork

This certified reference material was tested in a dedicated certification program. 10 samples were sent to 6 laboratories for XRF analyses. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.