

**Certified Pulp Iron Ore Reference Material - GIOP-136**

## Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	55.22	0.1	50	+/- 0.03
Fe Calc	%	55.214	0.074	49	+/- 0.022
SiO2	%	8.632	0.062	50	+/- 0.018
Al2O3	%	6.493	0.064	50	+/- 0.018
TiO2	%	0.4166	0.0059	50	+/- 0.0017
Mn	%	0.0402	0.00052	49	+/- 0.00015
CaO	%	1.055	0.012	50	+/- 0.003
P	%	0.0578	0.00088	50	+/- 0.00025
S	%	0.0241	0.0016	50	+/- 0.0004
MgO	%	0.5767	0.0098	50	+/- 0.0028
K2O	%	0.0757	0.0026	50	+/- 0.0007
Zn	%	0.00257	0.00057	30	+/- 0.00022
Pb	%	0.003			
Cu	%	0.0016			
Ba	%	0.0056	0.0022	31	+/- 0.0008
V	%	0.00768	0.00072	40	+/- 0.00023
Cr	%	0.00537	0.00098	39	+/- 0.00032
Cl	%	0.0036	0.0011	30	+/- 0.0004
As	%	0.001			
Ni	%	0.00194	0.00066	32	+/- 0.00024
Co	%	0.0018			
Sn	%	0.0017			
Sr	%	0.0053	0.0027	43	+/- 0.0008
Zr	%	0.0087	0.0013	30	+/- 0.0005
Na	%	0.241	0.0056	49	+/- 0.0016
LOI425	%	3.062	0.055	50	+/- 0.016
LOI650	%	3.292	0.03	39	+/- 0.01
LOI1000	%	3.266	0.03	39	+/- 0.01

**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: 18/03/2014

**Source Material**

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

**Usage**

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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 5 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.