

## Certified Pulp Iron Ore Reference Material - GIOP-134

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	47.52	0.1	49	+/- 0.03
Fe Calc	%	47.52	0.1	49	+/- 0.03
SiO <sub>2</sub>	%	13.474	0.065	49	+/- 0.019
Al <sub>2</sub> O <sub>3</sub>	%	9.953	0.075	49	+/- 0.022
TiO <sub>2</sub>	%	0.6576	0.008	50	+/- 0.0023
Mn	%	0.05982	0.00055	50	+/- 0.00016
CaO	%	1.688	0.019	50	+/- 0.006
P	%	0.0577	0.001	50	+/- 0.0003
S	%	0.0258	0.0016	50	+/- 0.0005
MgO	%	0.934	0.012	50	+/- 0.003
K <sub>2</sub> O	%	0.1171	0.0021	50	+/- 0.0006
Zn	%	0.00251	0.0005	32	+/- 0.00018
Pb	%	0.0027			
Cu	%	0.002			
Ba	%	0.008	0.003	34	+/- 0.0011
V	%	0.0122	0.0013	45	+/- 0.0004
Cr	%	0.0077	0.0012	42	+/- 0.0004
Cl	%	0.0036	0.0011	30	+/- 0.0004
As	%	0.001			
Ni	%	0.00227	0.00069	30	+/- 0.00026
Co	%	0.0015			
Sn	%	0.0013			
Sr	%	0.007	0.0028	45	+/- 0.0008
Zr	%	0.0125	0.0019	44	+/- 0.0006
Na	%	0.3921	0.0085	50	+/- 0.0025
LOI <sub>425</sub>	%	4.08	0.068	50	+/- 0.02
LOI <sub>650</sub>	%	4.457	0.039	39	+/- 0.013
LOI <sub>1000</sub>	%	4.452	0.036	39	+/- 0.012

#### 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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**GEOSTATS PTY LTD**

Mining Industry Consultants  
Reference Material Manufacture and Sales

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.