

## Certified Pulp Iron Ore Reference Material - GIOP-125

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	58.292	0.097	57	+/- 0.026
Fe Calc	%	58.288	0.093	59	+/- 0.024
SiO <sub>2</sub>	%	4.37	0.028	59	+/- 0.007
Al <sub>2</sub> O <sub>3</sub>	%	3.916	0.022	58	+/- 0.006
TiO <sub>2</sub>	%	0.146	0.0053	59	+/- 0.0014
Mn	%	0.1876	0.0044	59	+/- 0.0012
CaO	%	0.0115	0.0019	37	+/- 0.0007
P	%	0.068	0.0018	59	+/- 0.0005
S	%	0.009	0.0019	59	+/- 0.0005
MgO	%	0.0996	0.0085	59	+/- 0.0022
K <sub>2</sub> O	%	0.0304	0.0022	59	+/- 0.0006
Zn	%	0.0039	0.0015	39	+/- 0.0005
Pb	%	0.002			
Cu	%	0.0028			
Ba	%	0.0036			
V	%	0.00212	0.00056	33	+/- 0.0002
Cr	%	0.0061	0.0013	49	+/- 0.0004
Cl	%	0.0021			
As	%	0.0027			
Ni	%	0.0032	0.0019	39	+/- 0.0006
Co	%	0.0031			
Sn	%	0.018			
Sr	%	0.0105	0.0018	49	+/- 0.0005
Zr	%	0.0042			
Na	%	0.0125	0.0035	40	+/- 0.0011
LOI425	%	6.689	0.05	58	+/- 0.013
LOI650	%	7.481	0.043	59	+/- 0.011
LOI1000	%	7.644	0.039	59	+/- 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:

19/02/2013

#### Source Material

Prior to homogenisation and testing, this material was sourced from  
 Pilbara, WA

#### Usage

10A Marsh Close, O'Connor  
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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 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.