

## Certified Pulp Iron Ore Reference Material - GIOP-45

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	59.93	0.13	49	+/- 0.04
Fe (Calc)	%	59.963	0.071	47	+/- 0.021
SiO <sub>2</sub>	%	4.991	0.045	50	+/- 0.013
Al <sub>2</sub> O <sub>3</sub>	%	2.024	0.031	50	+/- 0.009
TiO <sub>2</sub>	%	0.1078	0.0056	50	+/- 0.0016
Mn	%	0.1189	0.003	50	+/- 0.0009
CaO	%	0.0486	0.0047	50	+/- 0.0014
P	%	0.0505	0.0011	47	+/- 0.0003
S	%	0.0248	0.0026	50	+/- 0.0007
MgO	%	0.0789	0.009	49	+/- 0.0026
K <sub>2</sub> O	%	0.0123	0.0023	45	+/- 0.0007
Zn	%	0.0018			
Pb	%	0.0049			
Cu	%	0.0025	0.0012	32	+/- 0.0004
Ba	%	0.0036			
V	%	0.0011			
Cr	%	0.0023	0.0013	34	+/- 0.0005
Cl	%	0.0149	0.0037	49	+/- 0.0011
As	%	0.0012			
Ni	%	0.0028			
Co	%	0.0013			
Sn	%	0.0021			
Sr	%	0.0022			
Zr	%	0.004			
Na	%	0.0185	0.0096	42	+/- 0.003
LOI <sub>425</sub>	%	5.918	0.064	39	+/- 0.021
LOI <sub>650</sub>	%	6.41	0.043	39	+/- 0.014
LOI	%	6.615	0.069	46	+/- 0.021

#### 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:

1/09/2010

#### Source Material

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

#### Usage

10A Marsh Close, O'Connor  
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Email [info@geostats.com.au](mailto:info@geostats.com.au)  
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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.