

## Certified Pulp Iron Ore Reference Material - GIOP-83

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	61.94	0.15	50	+/- 0.04
Fe (Calc)	%	61.96	0.11	50	+/- 0.03
SiO <sub>2</sub>	%	3.216	0.032	50	+/- 0.009
Al <sub>2</sub> O <sub>3</sub>	%	1.219	0.016	50	+/- 0.005
TiO <sub>2</sub>	%	0.0318	0.0052	50	+/- 0.0015
Mn	%	0.3422	0.0094	50	+/- 0.0027
CaO	%	0.0147	0.005	49	+/- 0.0015
P	%	0.05672	0.0009	50	+/- 0.00026
S	%	0.0155	0.0019	50	+/- 0.0005
MgO	%	0.033	0.01	50	+/- 0.003
K <sub>2</sub> O	%	0.0125	0.0031	48	+/- 0.0009
Zn	%	0.0022			
Pb	%	0.0046			
Cu	%	0.0034			
Ba	%	0.0092	0.0037	39	+/- 0.0012
V	%	0.001			
Cr	%	0.0019			
Cl	%	0.0078	0.0013	41	+/- 0.0004
As	%	0.0012			
Ni	%	0.0017			
Co	%	0.0024			
Sn	%	0.0074			
Sr	%	0.0029			
Zr	%	0.0015			
Na	%	0.015			
LOI <sub>425</sub>	%	5.722	0.039	50	+/- 0.011
LOI <sub>650</sub>	%	6.134	0.035	48	+/- 0.01
LOI	%	6.315	0.028	45	+/- 0.009

#### 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:

1/02/2011

#### Source Material

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

#### Usage

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Email [info@geostats.com.au](mailto:info@geostats.com.au)  
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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.