

## Certified Pulp Iron Ore Reference Material - GIOP-81

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	58.21	0.1	48	+/- 0.03
Fe (Calc)	%	58.195	0.086	50	+/- 0.025
SiO <sub>2</sub>	%	4.947	0.035	50	+/- 0.01
Al <sub>2</sub> O <sub>3</sub>	%	2.559	0.027	50	+/- 0.008
TiO <sub>2</sub>	%	0.1288	0.0052	50	+/- 0.0015
Mn	%	0.0728	0.0036	50	+/- 0.001
CaO	%	0.095	0.0058	50	+/- 0.0017
P	%	0.0784	0.0017	50	+/- 0.0005
S	%	0.012	0.0021	50	+/- 0.0006
MgO	%	0.1224	0.0077	50	+/- 0.0022
K <sub>2</sub> O	%	0.01014	0.00085	35	+/- 0.00029
Zn	%	0.0065	0.0015	40	+/- 0.0005
Pb	%	0.007			
Cu	%	0.0043			
Ba	%	0.003			
V	%	0.00316	0.00077	37	+/- 0.00026
Cr	%	0.002			
Cl	%	0.0042			
As	%	0.0026			
Ni	%	0.0019			
Co	%	0.0033			
Sn	%	0.0072			
Sr	%	0.0033			
Zr	%	0.0043			
Na	%	0.0166	0.0073	34	+/- 0.0026
LOI <sub>425</sub>	%	7.748	0.064	50	+/- 0.018
LOI <sub>650</sub>	%	8.351	0.079	50	+/- 0.023
LOI	%	8.618	0.069	50	+/- 0.02

#### 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.