

## Certified Pulp Iron Ore Reference Material - GIOP-98

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	32.63	0.12	48	+/- 0.04
SiO <sub>2</sub>	%	50.88	0.24	49	+/- 0.07
Al <sub>2</sub> O <sub>3</sub>	%	0.1008	0.0085	48	+/- 0.0025
TiO <sub>2</sub>	%	0.0138	0.0049	39	+/- 0.0016
Mn	%	0.0179	0.002	44	+/- 0.0006
CaO	%	1.409	0.016	50	+/- 0.004
P	%	0.1103	0.0014	50	+/- 0.0004
S	%	0.0273	0.0025	50	+/- 0.0007
MgO	%	1.875	0.023	50	+/- 0.007
K <sub>2</sub> O	%	0.0121	0.0026	49	+/- 0.0008
Zn	%	0.0041			
Pb	%	0.0062			
Cu	%	0.0047			
Ba	%	0.0067	0.003	33	+/- 0.0011
V	%	0.001			
Cr	%	<0.01			
Cl	%	0.0045			
As	%	0.0044			
Ni	%	0.004			
Co	%	0.0037			
Sn	%	0.0014			
Sr	%	0.0076			
Zr	%	0.002			
Na	%	0.0163	0.0063	42	+/- 0.002
LOI <sub>425</sub>	%	-0.169	0.037	38	+/- 0.012
LOI <sub>650</sub>	%	-0.75	0.19	40	+/- 0.06
LOI	%	-1.217	0.042	50	+/- 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:

20/07/2011

#### Source Material

Prior to homogenisation and testing, this material was sourced from  
 Yilgarn, Western Australia

#### Usage

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Email [info@geostats.com.au](mailto:info@geostats.com.au)  
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<p><b>GEOSTATS PTY LTD</b></p> <p>Mining Industry Consultants Reference Material Manufacture and Sales</p>
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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.