

## Certified Pulp Iron Ore Reference Material - GIOP-97

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	28.234	0.096	44	+/- 0.029
SiO <sub>2</sub>	%	54.4	0.29	45	+/- 0.09
Al <sub>2</sub> O <sub>3</sub>	%	0.746	0.014	48	+/- 0.004
TiO <sub>2</sub>	%	0.0279	0.0041	47	+/- 0.0012
Mn	%	0.0742	0.0036	50	+/- 0.001
CaO	%	3.028	0.022	49	+/- 0.006
P	%	0.0396	0.0011	49	+/- 0.0003
S	%	0.554	0.015	48	+/- 0.004
MgO	%	2.093	0.021	49	+/- 0.006
K <sub>2</sub> O	%	0.0522	0.0029	50	+/- 0.0008
Zn	%	0.006	0.0032	30	+/- 0.0012
Pb	%	0.0041			
Cu	%	0.0062	0.0037	30	+/- 0.0014
Ba	%	0.0037			
V	%	0.0012			
Cr	%	0.0011			
Cl	%	0.0095	0.0021	40	+/- 0.0007
As	%	0.0085			
Ni	%	0.004			
Co	%	0.003			
Sn	%	0.0015			
Sr	%	0.0062			
Zr	%	0.0021			
Na	%	0.0552	0.0079	50	+/- 0.0023
LOI <sub>425</sub>	%	-0.11	0.077	40	+/- 0.025
LOI <sub>650</sub>	%	-0.543	0.063	36	+/- 0.022
LOI	%	-0.92	0.055	50	+/- 0.016

#### 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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**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.