

## Certified Pulp Iron Ore Reference Material - GIOP-96

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	27.442	0.077	39	+/- 0.025
SiO <sub>2</sub>	%	54.38	0.58	49	+/- 0.17
Al <sub>2</sub> O <sub>3</sub>	%	0.723	0.02	48	+/- 0.006
TiO <sub>2</sub>	%	0.0289	0.006	47	+/- 0.0018
Mn	%	0.107	0.0041	50	+/- 0.0012
CaO	%	2.884	0.031	50	+/- 0.009
P	%	0.0507	0.0012	50	+/- 0.0004
S	%	0.94	0.042	49	+/- 0.012
MgO	%	2.819	0.025	48	+/- 0.007
K <sub>2</sub> O	%	0.051	0.0016	47	+/- 0.0005
Zn	%	0.0076	0.003	40	+/- 0.001
Pb	%	0.004			
Cu	%	0.0064			
Ba	%	0.0059			
V	%	0.0018			
Cr	%	0.0034			
Cl	%	0.0201	0.0032	43	+/- 0.001
As	%	0.0081			
Ni	%	0.0046			
Co	%	0.0032			
Sn	%	0.0027			
Sr	%	0.0072			
Zr	%	0.0027			
Na	%	0.038	0.0062	48	+/- 0.0018
LOI <sub>425</sub>	%	0.005	0.046	40	+/- 0.015
LOI <sub>650</sub>	%	-0.173	0.066	40	+/- 0.021
LOI	%	-0.454	0.047	48	+/- 0.014

#### 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.