

## Certified Pulp Iron Ore Reference Material - GIOP-95

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	24.215	0.064	44	+/- 0.02
SiO <sub>2</sub>	%	54.85	0.51	50	+/- 0.15
Al <sub>2</sub> O <sub>3</sub>	%	1.259	0.025	49	+/- 0.007
TiO <sub>2</sub>	%	0.0584	0.006	45	+/- 0.0018
Mn	%	0.2045	0.0048	49	+/- 0.0014
CaO	%	4.804	0.047	50	+/- 0.013
P	%	0.066	0.0016	50	+/- 0.0005
S	%	0.497	0.014	49	+/- 0.004
MgO	%	4.374	0.034	46	+/- 0.01
K <sub>2</sub> O	%	0.0806	0.0011	42	+/- 0.0003
Zn	%	0.0087	0.0033	40	+/- 0.0011
Pb	%	0.0056			
Cu	%	0.005	0.0038	30	+/- 0.0014
Ba	%	0.002			
V	%	0.003			
Cr	%	0.0031			
Cl	%	0.0184	0.0053	49	+/- 0.0015
As	%	0.0084			
Ni	%	0.0055			
Co	%	0.0031			
Sn	%	0.0034			
Sr	%	0.0072			
Zr	%	0.002			
Na	%	0.049	0.01	48	+/- 0.003
LOI <sub>425</sub>	%	0.039	0.017	33	+/- 0.006
LOI <sub>650</sub>	%	-0.235	0.054	38	+/- 0.018
LOI	%	-0.546	0.061	50	+/- 0.018
FeO	%	34.86	0.93	47	+/- 0.27

#### 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.