

## Certified Pulp Iron Ore Reference Material - GIOP-112

### Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	29.46	0.15	49	+/- 0.04
SiO <sub>2</sub>	%	53.57	0.3	50	+/- 0.09
Al <sub>2</sub> O <sub>3</sub>	%	0.405	0.011	49	+/- 0.003
TiO <sub>2</sub>	%	0.0207	0.0061	46	+/- 0.0018
Mn	%	0.0678	0.004	50	+/- 0.0012
CaO	%	2.047	0.015	49	+/- 0.004
P	%	0.0876	0.0014	50	+/- 0.0004
S	%	0.3007	0.0096	49	+/- 0.0028
MgO	%	2.323	0.024	50	+/- 0.007
K <sub>2</sub> O	%	0.0267	0.0047	50	+/- 0.0014
Zn	%	0.0061	0.0034	31	+/- 0.0013
Pb	%	0.0045			
Cu	%	0.0045			
Ba	%	0.0038			
V	%	0.0013			
Cr	%	0.0016			
Cl	%	0.0104	0.0017	40	+/- 0.0005
As	%	0.0063			
Ni	%	0.0031			
Co	%	0.0033			
Sn	%	0.0019			
Sr	%	0.0075			
Zr	%	0.002			
Na	%	0.0248	0.0073	50	+/- 0.0021
LOI <sub>425</sub>	%	-0.083	0.042	38	+/- 0.014
LOI <sub>650</sub>	%	-0.621	0.05	34	+/- 0.018
LOI	%	-0.922	0.036	48	+/- 0.01

#### 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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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.