

**Certified Pulp Iron Ore Reference Material - GIOP-77**

**Certificate of Analysis**

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	57.25	0.13	49	+/- 0.04
Fe (Calc)	%	57.24	0.1	49	+/- 0.03
SiO2	%	6.46	0.046	48	+/- 0.013
Al2O3	%	2.554	0.023	48	+/- 0.007
TiO2	%	0.1084	0.0051	49	+/- 0.0015
Mn	%	0.0305	0.0011	46	+/- 0.0003
CaO	%	0.0329	0.0054	48	+/- 0.0016
P	%	0.129	0.003	49	+/- 0.0009
S	%	0.0087	0.0023	49	+/- 0.0007
MgO	%	0.058	0.011	49	+/- 0.003
K2O	%	0.01039	0.0007	33	+/- 0.00025
Zn	%	0.0023			
Pb	%	0.0053			
Cu	%	0.0037			
Ba	%	0.0022			
V	%	0.0025			
Cr	%	0.0018			
Cl	%	0.0029			
As	%	0.0024			
Ni	%	0.0045			
Co	%	0.0026			
Sn	%	0.0088			
Sr	%	0.0029			
Zr	%	0.0043			
Na	%	0.011			
LOI425	%	7.619	0.063	49	+/- 0.018
LOI650	%	8.285	0.065	49	+/- 0.019
LOI	%	8.533	0.062	48	+/- 0.018

**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: 1/02/2011

**Source Material**

Prior to homogenisation and testing, this material was sourced from Pilbara

**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.