

**GEOSTATS PTY LTD**  
Sample and Assay Monitoring Services

**GIOP-4**

Certified Iron Ore Reference Material

**GIOP-4**

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	57.8	0.192	30	+/- 0.069
SiO <sub>2</sub>	%	3.97	0.071	20	+/- 0.031
Al <sub>2</sub> O <sub>3</sub>	%	1.85	0.046	30	+/- 0.017
P	%	0.037	0.0028	30	+/- 0.001
S	%	0.010	0.0011	24	+/- 0.0004
CaO	%	0.074	0.0049	29	+/- 0.002
TiO <sub>2</sub>	%	0.074	0.0049	30	+/- 0.002
Mn	%	0.165	0.0057	30	+/- 0.002
MgO	%	0.162	0.0062	20	+/- 0.003
K <sub>2</sub> O	%	0.007	0.0007	10	+/- 0.0004
LOI	%	10.8	0.2394	30	+/- 0.086

CRM Details

Control Statistic Details

Control values for this material were determined during a certification program.

Non-certified values	
Element	%
Na <sub>2</sub> O	0.101

Certification Date

This material was certified with the above values on:  
November 2005

Source Material

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

Material Type

Pulp Iron Ore, 10-20g samples.

Usage

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

This standard was dried in an oven for a minimum of 12 hours at 110C. The dry material is then crushed and homogenised using a ball mill. The material is then stored in a sealed, stable container ready for final packaging.

Materials are statistically sampled from stores, then packaged into heat sealed, air tight, plastic packets ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

Assay Testwork

This standard was tested in a dedicated certification program. 10 x 10g samples were sent to 3 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.

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**Geostats Pty Ltd, Certified Iron Ore Reference Material, Product Code:**