

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

**GIOP-3**

Certified Iron Ore Reference Material

**GIOP-3**

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe XRF	%	45.7	0.320	30	+/- 0.115
SiO2	%	10.2	0.186	30	+/- 0.067
Al2O3	%	10.8	0.212	29	+/- 0.077
P	%	0.031	0.0012	30	+/- 0.0004
S	%	0.024	0.0099	30	+/- 0.004
CaO	%	0.172	0.0068	30	+/- 0.002
TiO2	%	0.496	0.0077	30	+/- 0.003
Mn	%	0.435	0.0076	30	+/- 0.003
MgO	%	0.304	0.0254	30	+/- 0.009
K2O	%	0.037	0.0031	30	+/- 0.001
Na2O	%	0.024	0.0099	20	+/- 0.004
LOI	%	11.8	0.456	29	+/- 0.166

CRM Details

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:  
February 2006

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.

Non-certified values	
Element	%
As	0.004
Co	0.001
Cr	0.025
V	0.019
Zn	0.010

10A Marsh Close, O'Connor, Western Australia 6163  
Phone : +61 8 9314 2566, Fax : +61 8 9314 3699  
e-mail : [pjh@geostats.com.au](mailto:pjh@geostats.com.au), [jcm@geostats.com.au](mailto:jcm@geostats.com.au)  
Website <http://www.geostats.com.au>

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