

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

Certified Iron Ore Reference Material

**GIOP-1**

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	68.5	0.151	29	+/- 0.055
SiO2	%	0.960	0.122	30	+/- 0.044
Al2O3	%	0.396	0.071	30	+/- 0.026
P	%	0.010	0.0036	30	+/- 0.001
S	%	0.007	0.0021	30	+/- 0.001
CaO	%	0.058	0.0041	30	+/- 0.001
TiO2	%	0.120	0.0051	30	+/- 0.002
Mn	%	0.020	0.0219	30	+/- 0.008
MgO	%	0.023	0.0078	29	+/- 0.003
K2O	%	0.005	0.0019	29	+/- 0.001
Na2O	%	0.046	0.0149	20	+/- 0.007
LOI	%	0.413	0.0259	29	+/- 0.009

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:  
Cockatoo Island

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	%
V	0.015
Zn	0.010
As	0.004
Co	0.001
Cr	0.023

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