

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

GIOP-13

## Certified Pulp Iron Ore Reference Material

# GIOP-13

## Certified Control Values

### Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe2+	%	11.68	0.208	30	+/- 0.074
Total Fe	%	19.6	0.27	40	+/- 0.085
SiO2	%	47.7	0.26	40	+/- 0.081
Al2O3	%	7.05	0.134	40	+/- 0.0415
TiO2	%	0.368	0.0062	40	+/- 0.0019
CaO	%	4.50	0.082	40	+/- 0.0256
P	%	0.035	0.0010	30	+/- 0.0003
S	%	0.163	0.0068	35	+/- 0.0023
MgO	%	2.51	0.034	30	+/- 0.0122
K2O	%	1.491	0.0183	40	+/- 0.0057
Na2O	%	0.418	0.0124	28	+/- 0.0046
LOI	%	7.12	0.095	40	+/- 0.0293

## 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:  
22nd of June 2007

### Source Material

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

### Material Type

Pulp Iron Ore, 10g 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 reference material was dried in an oven for a minimum of 12 hours at 110C. The dry material is then crushed in a micron mill and homogenised in a vee-blender. 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 4 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.

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

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