

**GEOSTATS PTY LTD**  
Mining Industry Consultants  
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material

**GIOP-12**

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe2+	%	17.56	0.144	40	+/- 0.044
Total Fe	%	32.6	0.26	40	+/- 0.082
SiO2	%	38.0	0.21	40	+/- 0.065
Al2O3	%	1.15	0.016	35	+/- 0.0053
TiO2	%	0.078	0.0059	40	+/- 0.0018
CaO	%	2.43	0.029	39	+/- 0.0092
P	%	0.025	0.0010	30	+/- 0.0004
S	%	0.035	0.0016	27	+/- 0.0006
MgO	%	2.18	0.010	27	+/- 0.0036
K2O	%	0.099	0.0041	40	+/- 0.0013
Na2O	%	0.092	0.0098	30	+/- 0.0035
LOI	%	8.98	0.111	40	+/- 0.0343

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.

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