

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

Certified Pulp Iron Ore Reference Material

**GIOP-11**

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe2+	%	17.34	0.236	30	+/- 0.084
Total Fe	%	34.0	0.20	39	+/- 0.064
SiO2	%	40.2	0.21	40	+/- 0.065
Al2O3	%	1.69	0.022	39	+/- 0.0068
TiO2	%	0.121	0.0063	40	+/- 0.002
CaO	%	3.41	0.050	40	+/- 0.0156
P	%	0.027	0.0010	30	+/- 0.0004
S	%	0.084	0.0055	40	+/- 0.0017
MgO	%	2.69	0.027	30	+/- 0.0098
K2O	%	0.238	0.0047	40	+/- 0.0015
Na2O	%	0.074	0.0084	28	+/- 0.0031
LOI	%	2.40	0.068	40	+/- 0.0212

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.

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), [srr@geostats.com.au](mailto:srr@geostats.com.au)  
Website <http://www.geostats.com.au>

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