

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material

GIOP-21

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	53.6	0.22	40	+/- 0.07
Fe (Calc)	%	53.6	0.09	40	+/- 0.03
SiO ₂	%	7.61	0.070	40	+/- 0.022
Al ₂ O ₃	%	4.86	0.038	38	+/- 0.012
TiO ₂	%	0.260	0.0055	40	+/- 0.0017
Mn	%	0.211	0.0038	40	+/- 0.0012
CaO	%	0.685	0.0133	38	+/- 0.0042
P	%	0.041	0.0013	40	+/- 0.0004
S	%	0.121	0.0012	27	+/- 0.0004
MgO	%	0.184	0.0124	29	+/- 0.0045
K ₂ O	%	0.050	0.0012	40	+/- 0.0004
LOI ₄₀₀	%	7.01	0.050	30	+/- 0.018
LOI ₆₅₀	%	8.35	0.093	40	+/- 0.029
LOI	%	8.83	0.094	40	+/- 0.029

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:
13th March 2008

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, srr@geostats.com.au

Website <http://www.geostats.com.au>

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