

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material

GIOP-29

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	60.6	0.19	200	+/- 0.03
Fe(Calc)	%	60.6	0.15	202	+/- 0.02
SiO ₂	%	6.07	0.112	202	+/- 0.015
Al ₂ O ₃	%	3.71	0.071	202	+/- 0.01
TiO ₂	%	0.166	0.0056	205	+/- 0.0008
Mn	%	0.038	0.0049	202	+/- 0.0007
CaO	%	0.038	0.0049	203	+/- 0.0007
P	%	0.209	0.0031	205	+/- 0.0004
S	%	0.012	0.0031	198	+/- 0.0004
MgO	%	0.209	0.0196	204	+/- 0.0027
K ₂ O	%	0.831	0.0202	202	+/- 0.0028
LOI ₄₂₅	%	0.73	0.056	152	+/- 0.009
LOI ₆₅₀	%	1.28	0.076	162	+/- 0.012
LOI ₁₀₀₀	%	1.67	0.093	198	+/- 0.013

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:
4th February 2009

Source Material

Prior to homogenisation and testing, this material was sourced from:
Northern Territory

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: