

GEOSTATS PTY LTD
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material

GIOP-35

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	49.4	0.28	50	+/- 0.08
SiO2	%	0.85	0.02	40.00	+/- 0.01
Al2O3	%	5.53	0.06	50.00	+/- 0.02
TiO2	%	20.20	0.227	49	+/- 0.064
Mn	%	0.200	0.0068	50	+/- 0.0019
P	%	0.008	0.0010	40	+/- 0.0003
S	%	0.014	0.0016	40	+/- 0.0005
MgO	%	2.569	0.0344	48	+/- 0.0097
Zn	%	0.062	0.0031	40	+/- 0.001
V	%	0.313	0.0035	30	+/- 0.0012
Cr	%	0.068	0.0019	30	+/- 0.0007
Cl	%	0.008	0.0023	30	+/- 0.0008
Ni	%	0.038	0.0024	40	+/- 0.0008
Co	%	0.022	0.0023	40	+/- 0.0007
Sn	%	0.003	0.0009	30	+/- 0.0003
LOI425	%	0.59	0.016	37	+/- 0.005
LOI650	%	0.32	0.066	36	+/- 0.021
LOI	%	-0.51	0.056	47	+/- 0.016

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:
July 2010

Source Material

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

Material Type

Titano-Magnetite 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 5 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: