

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material

GIOP-36

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	49.5	0.32	49	+/- 0.09
SiO ₂	%	0.85	0.02	38.00	+/- 0.01
Al ₂ O ₃	%	5.51	0.06	49.00	+/- 0.02
TiO ₂	%	20.10	0.251	49	+/- 0.07
Mn	%	0.200	0.0073	49	+/- 0.002
CaO	%	0.011	0.0068	31	+/- 0.0024
P	%	0.008	0.0009	39	+/- 0.0003
S	%	0.014	0.0015	40	+/- 0.0005
MgO	%	2.657	0.0292	45	+/- 0.0085
Zn	%	0.063	0.0032	39	+/- 0.001
V	%	0.313	0.0038	30	+/- 0.0014
Cr	%	0.067	0.0032	30	+/- 0.0011
Cl	%	0.008	0.0022	30	+/- 0.0008
Ni	%	0.038	0.0034	39	+/- 0.0011
Co	%	0.022	0.0020	39	+/- 0.0006
LOI ₄₂₅	%	0.51	0.020	38	+/- 0.006
LOI ₆₅₀	%	0.23	0.080	38	+/- 0.025
LOI	%	-0.64	0.059	47	+/- 0.017

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.

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