

Certified Pulp Iron Ore Reference Material

GIOP-32

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	30.2	0.17	40	+/- 0.05
Fe (Calc)	%	30.2	0.18	40	+/- 0.06
SiO ₂	%	50.0	0.15	39	+/- 0.05
Al ₂ O ₃	%	0.73	0.022	40	+/- 0.007
TiO ₂	%	0.031	0.0032	40	+/- 0.001
Mn	%	0.043	0.0035	40	+/- 0.0011
CaO	%	1.216	0.0117	40	+/- 0.0036
P	%	0.105	0.0028	40	+/- 0.0009
S	%	0.012	0.0007	27	+/- 0.0003
MgO	%	2.029	0.0368	39	+/- 0.0115
K ₂ O	%	0.610	0.0092	40	+/- 0.0029
Zn	%	0.006	0.0027	30	+/- 0.001
Na	%	0.57	0.023	39	+/- 0.007
LOI ₄₀₀	%	0.14	0.047	30	+/- 0.017
LOI ₆₅₀	%	0.56	0.110	30	+/- 0.039
LOI	%	1.03	0.048	40	+/- 0.015

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:
11th August 2009

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.