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GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material - GIOP-47

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	61.9	0.15	50	+/- 0.04
Fe (Calc)	%	61.914	0.052	48	+/- 0.015
SiO2	%	2.809	0.024	49	+/- 0.007
Al2O3	%	1.88	0.022	48	+/- 0.007
TiO2	%	0.0614	0.0027	44	+/- 0.0008
Mn	%	0.0782	0.0021	47	+/- 0.0006
CaO	%	0.0151	0.0048	47	+/- 0.0014
P	%	0.0688	0.0015	48	+/- 0.0004
S	%	0.0199	0.0028	50	+/- 0.0008
MgO	%	0.041	0.011	49	+/- 0.003
K2O	%	0.0064	0.0019	30	+/- 0.0007
Zn	%	0.0016			
Pb	%	0.0043			
Cu	%	0.0021			
Ba	%	0.0017			
V	%	0.0008			
Cr	%	0.00263	0.00091	33	+/- 0.00033
Cl	%	0.007			
As	%	0.00091			
Ni	%	0.0021			
Co	%	0.0016			
Sn	%	0.0015			
Sr	%	0.0022			
Zr	%	0.0048			
Na	%	0.015			
LOI425	%	5.657	0.057	38	+/- 0.019
LOI650	%	6.148	0.037	38	+/- 0.012
LOI	%	6.309	0.05	44	+/- 0.015

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: 1/09/2010

Source Material

Prior to homogenisation and testing, this material was sourced from
Pilbara

Usage

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This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

This certified reference material was dried in an oven for a minimum of 8 hours at 105°C. The dry material was pulverised in a "puck and bowl" and then homogenised in a vee-blender. The material is then packaged into 10g plastic packets, ready for shipment.

Certification Testwork

This certified reference material was tested in a dedicated certification program. 10 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.