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GEOSTATS PTY LTD
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material - GIOP-101

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	37.22	0.14	49	+/- 0.04
SiO2	%	44.27	0.2	49	+/- 0.06
Al2O3	%	0.013			
TiO2	%	0.01			
Mn	%	0.0173	0.0022	40	+/- 0.0007
CaO	%	1.533	0.016	47	+/- 0.005
P	%	0.0816	0.0015	50	+/- 0.0004
S	%	0.0061	0.0019	48	+/- 0.0006
MgO	%	1.8	0.023	47	+/- 0.007
K2O	%	0.0036			
Zn	%	0.0035			
Pb	%	0.004			
Cu	%	0.0054			
Ba	%	0.0061	0.0026	30	+/- 0.001
V	%	0.001			
Cr	%	0.0018			
Cl	%	0.0038			
As	%	0.0031			
Ni	%	0.0023			
Co	%	0.003			
Sn	%	0.0015			
Sr	%	0.006			
Zr	%	0.0024			
Na	%	0.012	0.0053	39	+/- 0.0017
LOI425	%	-0.105	0.044	39	+/- 0.014
LOI650	%	-0.852	0.07	38	+/- 0.023
LOI	%	-1.144	0.043	49	+/- 0.012

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: 20/07/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
Yilgarn, Western Australia

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.