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GEOSTATS PTY LTD
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material - GIOP-72

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	58.71	0.14	50	+/- 0.04
Fe (Calc)	%	58.728	0.079	49	+/- 0.023
SiO2	%	5.067	0.052	49	+/- 0.015
Al2O3	%	3.075	0.046	50	+/- 0.013
TiO2	%	0.153	0.0065	50	+/- 0.0019
Mn	%	0.1416	0.0062	49	+/- 0.0018
CaO	%	0.048	0.0067	50	+/- 0.0019
P	%	0.0442	0.0013	50	+/- 0.0004
S	%	0.0246	0.001	50	+/- 0.0003
MgO	%	0.09	0.014	50	+/- 0.004
K2O	%	0.0119	0.0024	44	+/- 0.0008
Zn	%	0.0037	0.0018	30	+/- 0.0007
Pb	%	0.0013			
Cu	%	0.0036			
Ba	%	0.0041			
V	%	0.0026			
Cr	%	0.004	0.0013	40	+/- 0.0004
Cl	%	0.0102	0.0031	44	+/- 0.0009
As	%	0.0035			
Ni	%	0.0033			
Co	%	0.0033			
Sn	%	0.0062			
Sr	%	0.0028			
Zr	%	0.0067			
Na	%	0.0159	0.0076	39	+/- 0.0025
LOI425	%	6.255	0.07	48	+/- 0.021
LOI650	%	6.955	0.053	48	+/- 0.016
LOI	%	7.22	0.064	50	+/- 0.018

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: 1/12/2010

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.