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GEOSTATS PTY LTD
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material - GIOP-86

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	57.26	0.1	49	+/- 0.03
Fe (Calc)	%	57.258	0.06	48	+/- 0.018
SiO2	%	5.752	0.035	48	+/- 0.01
Al2O3	%	2.657	0.028	50	+/- 0.008
TiO2	%	0.1434	0.0059	50	+/- 0.0017
Mn	%	0.085	0.0037	50	+/- 0.001
CaO	%	0.1514	0.0057	50	+/- 0.0016
P	%	0.03934	0.00087	50	+/- 0.00025
S	%	0.0139	0.002	50	+/- 0.0006
MgO	%	0.1758	0.0091	50	+/- 0.0026
K2O	%	0.0107	0.0011	38	+/- 0.0004
Zn	%	0.0094	0.0014	38	+/- 0.0005
Pb	%	0.0085			
Cu	%	0.0041			
Ba	%	0.0025			
V	%	0.00336	0.00076	36	+/- 0.00026
Cr	%	0.0024			
Cl	%	0.0052			
As	%	0.0032			
Ni	%	0.0038			
Co	%	0.0038			
Sn	%	0.0073			
Sr	%	0.0035			
Zr	%	0.004			
Na	%	0.0184	0.0073	38	+/- 0.0024
LOI425	%	8.044	0.073	50	+/- 0.021
LOI650	%	8.675	0.068	49	+/- 0.02
LOI	%	8.94	0.083	49	+/- 0.024

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: 1/02/2011

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.