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GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Iron Ore Reference Material - GIOP-39

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	56.61	0.19	50	+/- 0.05
Fe (Calc)	%	56.6	0.11	47	+/- 0.03
SiO2	%	5.875	0.044	50	+/- 0.013
Al2O3	%	2.606	0.042	50	+/- 0.012
TiO2	%	0.1518	0.0052	50	+/- 0.0015
Mn	%	0.0757	0.0039	49	+/- 0.0011
CaO	%	0.1465	0.0046	50	+/- 0.0013
P	%	0.0396	0.0019	49	+/- 0.0005
S	%	0.0123	0.0023	39	+/- 0.0008
MgO	%	0.153	0.012	49	+/- 0.004
K2O	%	0.01	0.0017	39	+/- 0.0005
Zn	%	0.007	0.0015	38	+/- 0.0005
Pb	%	0.0042			
Cu	%	0.0026	0.0013	31	+/- 0.0005
Ba	%	0.0024			
V	%	0.0026	0.0012	37	+/- 0.0004
Cr	%	0.0034			
Cl	%	0.0054			
As	%	0.0017			
Ni	%	0.003	0.0023	30	+/- 0.0009
Co	%	0.0021	0.0016	34	+/- 0.0006
Sn	%	0.0017			
Sr	%	0.0017			
Zr	%	0.0036			
Na	%	0.014			
LOI425	%	8.774	0.041	30	+/- 0.015
LOI650	%	9.5	0.092	37	+/- 0.031
LOI	%	9.757	0.097	45	+/- 0.029

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 are 120C. The dry material was pulverised in an automated LM5 pulveriser and then homogenised in a vee-blender. The material is then packaged into 10g plastic packets, ready for shiment.

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.