10A Marsh Close, O'Connor
Western Australia 6163
Phone +618 93142566 Fax +618 93143699
Email info@geostats.com.au
Website http://www.geostats.com.au

GEOSTATS PTY LTD
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material - GIOP-73

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	57.77	0.17	50	+/- 0.05
Fe (Calc)	%	57.785	0.097	48	+/- 0.028
SiO2	%	5.251	0.044	45	+/- 0.013
Al2O3	%	3.548	0.045	50	+/- 0.013
TiO2	%	0.1846	0.0081	50	+/- 0.0023
Mn	%	0.0967	0.0082	49	+/- 0.0024
CaO	%	0.1806	0.0079	50	+/- 0.0023
P	%	0.0538	0.0013	50	+/- 0.0004
S	%	0.0326	0.0011	50	+/- 0.0003
MgO	%	0.078	0.013	50	+/- 0.004
K2O	%	0.018	0.004	49	+/- 0.0012
Zn	%	0.0029			
Pb	%	0.007			
Cu	%	0.0039			
Ba	%	0.0045			
V	%	0.0026			
Cr	%	0.0049	0.0013	39	+/- 0.0004
Cl	%	0.0105	0.0044	44	+/- 0.0013
As	%	0.0042			
Ni	%	0.0021			
Co	%	0.0032			
Sn	%	0.0056			
Sr	%	0.003			
Zr	%	0.0059			
Na	%	0.0183	0.0078	44	+/- 0.0024
LOI425	%	6.656	0.066	48	+/- 0.019
LOI650	%	7.493	0.053	48	+/- 0.016
LOI	%	7.766	0.065	49	+/- 0.019

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.