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-46

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	61.699	0.087	46	+/- 0.026
Fe (Calc)	%	61.703	0.069	49	+/- 0.02
SiO2	%	3.064	0.031	48	+/- 0.009
Al2O3	%	1.854	0.018	49	+/- 0.005
TiO2	%	0.0656	0.0046	50	+/- 0.0013
Mn	%	0.0685	0.002	49	+/- 0.0006
CaO	%	0.0159	0.0045	48	+/- 0.0013
P	%	0.0684	0.0014	48	+/- 0.0004
S	%	0.0152	0.0024	50	+/- 0.0007
MgO	%	0.045	0.01	50	+/- 0.003
K2O	%	0.0056			
Zn	%	0.0019			
Pb	%	0.005			
Cu	%	0.0027	0.0017	31	+/- 0.0006
Ba	%	0.0016			
V	%	0.001			
Cr	%	0.0023	0.001	35	+/- 0.0003
Cl	%	0.007			
As	%	0.001			
Ni	%	0.0032			
Co	%	0.0015			
Sn	%	0.0019			
Sr	%	0.0016			
Zr	%	0.0059			
Na	%	0.012			
LOI425	%	5.766	0.059	40	+/- 0.019
LOI650	%	6.238	0.039	38	+/- 0.013
LOI	%	6.385	0.049	47	+/- 0.015

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 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.