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-119

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	2.684	0.02	39	+/- 0.007
Fe (Calc)	%	2.64	0.12	50	+/- 0.03
SiO2	%	86.05	0.25	50	+/- 0.07
Al2O3	%	0.0264	0.01	36	+/- 0.0034
TiO2	%	<0.01			
Mn	%	0.0168	0.0028	50	+/- 0.0008
CaO	%	3.563	0.048	50	+/- 0.014
P	%	0.1225	0.0015	50	+/- 0.0004
S	%	0.0043	0.0012	45	+/- 0.0004
MgO	%	5.55	0.16	50	+/- 0.05
K2O	%	0.0051			
Zn	%	0.0077			
Pb	%	0.0041			
Cu	%	0.0054			
Ba	%	0.0083			
V	%	0.0013			
Cr	%	0.0166	0.0023	49	+/- 0.0007
Cl	%	0.0086	0.002	33	+/- 0.0007
As	%	0.0053			
Ni	%	0.0107	0.0027	46	+/- 0.0008
Co	%	0.0045			
Sn	%	0.0088			
Sr	%	0.0058			
Zr	%	0.0011			
Na	%	0.035	0.018	49	+/- 0.005
LOI425	%	0.099	0.028	50	+/- 0.008
LOI650	%	0.174	0.042	50	+/- 0.012
LOI	%	0.634	0.048	43	+/- 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: 21/07/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
Yilgarn, Western Australia

Usage

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

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.