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 Iron Ore Reference Material - GIOP-69

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	59.49	0.13	45	+/- 0.04
Fe (Calc)	%	59.53	0.13	47	+/- 0.04
SiO2	%	3.346	0.037	46	+/- 0.011
Al2O3	%	1.574	0.022	47	+/- 0.007
TiO2	%	0.0484	0.0051	50	+/- 0.0015
Mn	%	0.2574	0.0094	50	+/- 0.0027
CaO	%	0.337	0.013	50	+/- 0.004
P	%	0.0407	0.0012	50	+/- 0.0003
S	%	0.0598	0.0021	50	+/- 0.0006
MgO	%	0.089	0.011	50	+/- 0.003
K2O	%	0.0162	0.0038	44	+/- 0.0012
Zn	%	0.0044			
Pb	%	0.013			
Cu	%	0.0053			
Ba	%	0.0047			
V	%	0.002			
Cr	%	0.0027			
Cl	%	0.0251	0.0075	50	+/- 0.0021
As	%	0.003			
Ni	%	0.0026			
Co	%	0.0034			
Sn	%	0.0023			
Sr	%	0.0031			
Zr	%	0.013			
Na	%	0.0301	0.0088	50	+/- 0.0025
LOI425	%	8.073	0.055	46	+/- 0.017
LOI650	%	8.689	0.05	46	+/- 0.015
LOI	%	8.933	0.069	48	+/- 0.02

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

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 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.