

Certified Pulp Iron Ore Reference Material - GIOP-87

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	60.16	0.13	50	+/- 0.04
Fe (Calc)	%	60.181	0.08	50	+/- 0.023
SiO2	%	3.147	0.026	49	+/- 0.007
Al2O3	%	2.247	0.023	50	+/- 0.007
TiO2	%	0.096	0.0064	50	+/- 0.0018
Mn	%	0.0344	0.0037	50	+/- 0.0011
CaO	%	0.0298	0.0025	50	+/- 0.0007
P	%	0.0976	0.001	46	+/- 0.0003
S	%	0.0114	0.002	50	+/- 0.0006
MgO	%	0.0482	0.0083	50	+/- 0.0024
K2O	%	0.0094			
Zn	%	0.0024			
Pb	%	0.0078			
Cu	%	0.0068			
Ba	%	0.0024			
V	%	0.0024			
Cr	%	0.002			
Cl	%	0.0035			
As	%	0.002			
Ni	%	0.0025			
Co	%	0.0026			
Sn	%	0.002			
Sr	%	0.0031			
Zr	%	0.004			
Na	%	0.014			
LOI425	%	7.191	0.062	50	+/- 0.018
LOI650	%	7.76	0.065	48	+/- 0.019
LOI	%	8.034	0.072	49	+/- 0.021

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: 1/02/2011

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 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.