

Certified Iron Ore Reference Material - GIOP-59

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	61.04	0.14	49	+/- 0.04
Fe (Calc)	%	61.045	0.098	49	+/- 0.028
SiO2	%	4.355	0.041	47	+/- 0.012
Al2O3	%	2.501	0.031	48	+/- 0.009
TiO2	%	0.2088	0.0065	40	+/- 0.0021
Mn	%	0.638	0.015	48	+/- 0.004
CaO	%	0.0825	0.0074	40	+/- 0.0024
P	%	0.0516	0.0014	40	+/- 0.0004
S	%	0.0581	0.0023	47	+/- 0.0007
MgO	%	0.096	0.012	40	+/- 0.004
K2O	%	0.0765	0.005	40	+/- 0.0016
Zn	%	0.013	0.0029	40	+/- 0.0009
Pb	%	0.0559	0.0094	48	+/- 0.0028
Cu	%	0.0038			
Ba	%	0.0114	0.0043	31	+/- 0.0016
V	%	0.0659	0.0029	40	+/- 0.0009
Cr	%	0.0204	0.0014	48	+/- 0.0004
Cl	%	0.0082	0.0036	34	+/- 0.0013
As	%	0.0122	0.003	31	+/- 0.0011
Ni	%	0.0066			
Co	%	0.0038			
Sn	%	0.0039			
Sr	%	0.0067			
Zr	%	0.0052			
Na	%	0.0208	0.0079	38	+/- 0.0026
LOI425	%	3.106	0.043	48	+/- 0.013
LOI650	%	3.777	0.041	45	+/- 0.013
LOI	%	4.121	0.053	46	+/- 0.016

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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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 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 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.