

Certified Pulp Iron Ore Reference Material - GIOP-89

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	60.42	0.14	49	+/- 0.04
Fe (Calc)	%	60.43	0.12	49	+/- 0.03
SiO ₂	%	3.922	0.037	49	+/- 0.011
Al ₂ O ₃	%	1.702	0.016	50	+/- 0.005
TiO ₂	%	0.344	0.016	50	+/- 0.005
Mn	%	0.1927	0.0093	50	+/- 0.0027
CaO	%	0.0606	0.0037	50	+/- 0.0011
P	%	0.048	0.0011	50	+/- 0.0003
S	%	0.0155	0.0018	50	+/- 0.0005
MgO	%	0.086	0.01	50	+/- 0.003
K ₂ O	%	0.0106	0.001	40	+/- 0.0003
Zn	%	0.0045	0.0011	30	+/- 0.0004
Pb	%	0.005			
Cu	%	0.0034			
Ba	%	0.0063			
V	%	0.0019			
Cr	%	0.0019			
Cl	%	0.0093	0.0015	38	+/- 0.0005
As	%	0.0015			
Ni	%	0.0016			
Co	%	0.0027			
Sn	%	0.0056			
Sr	%	0.0025			
Zr	%	0.0039			
Na	%	0.0178	0.0082	32	+/- 0.003
LOI ₄₂₅	%	6.458	0.056	48	+/- 0.017
LOI ₆₅₀	%	6.918	0.046	47	+/- 0.014
LOI	%	7.118	0.043	47	+/- 0.013

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
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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 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.