

Certified Pulp Iron Ore Reference Material - GIOP-79

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	58.06	0.14	48	+/- 0.04
Fe (Calc)	%	58.074	0.099	47	+/- 0.029
SiO2	%	5.592	0.043	47	+/- 0.013
Al2O3	%	2.231	0.018	47	+/- 0.005
TiO2	%	0.0927	0.0053	49	+/- 0.0015
Mn	%	0.0731	0.0037	49	+/- 0.0011
CaO	%	0.035	0.0055	48	+/- 0.0016
P	%	0.1131	0.0019	49	+/- 0.0006
S	%	0.0088	0.002	48	+/- 0.0006
MgO	%	0.067	0.011	49	+/- 0.003
K2O	%	0.01039	0.00089	38	+/- 0.0003
Zn	%	0.0021			
Pb	%	0.0071			
Cu	%	0.0037			
Ba	%	0.004			
V	%	0.0026			
Cr	%	0.0022			
Cl	%	0.0031			
As	%	0.0033			
Ni	%	0.0055			
Co	%	0.0024			
Sn	%	0.0042			
Sr	%	0.004			
Zr	%	0.0031			
Na	%	0.019			
LOI425	%	7.68	0.054	47	+/- 0.016
LOI650	%	8.305	0.071	49	+/- 0.021
LOI	%	8.55	0.041	42	+/- 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
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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.