

Certified Pulp Iron Ore Reference Material - GIOP-147

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	59.17	0.12	57	+/- 0.03
Fe Calc	%	59.191	0.054	38	+/- 0.018
SiO2	%	4.449	0.042	58	+/- 0.011
Al2O3	%	2.108	0.02	58	+/- 0.005
TiO2	%	0.2036	0.0047	58	+/- 0.0012
Mn	%	0.1211	0.0038	58	+/- 0.001
CaO	%	0.0295	0.0048	58	+/- 0.0013
P	%	0.0816	0.0016	58	+/- 0.0004
S	%	0.0217	0.0013	58	+/- 0.0004
MgO	%	0.0659	0.0091	55	+/- 0.0025
K2O	%	0.0119	0.0021	53	+/- 0.0006
Zn	%	0.00419	0.00067	38	+/- 0.00022
Pb	%	0.0048			
Cu	%	0.0021			
Ba	%	0.0049			
V	%	0.00277	0.00043	42	+/- 0.00013
Cr	%	0.0018			
Cl	%	0.0056	0.0011	31	+/- 0.0004
As	%	0.0022			
Ni	%	0.0019			
Co	%	0.00179	0.00091	33	+/- 0.00033
Sn	%	0.001			
Sr	%	0.0028			
Zr	%	0.004	0.00095	34	+/- 0.00034
Na	%	0.0092			
LOI140	%	0.256	0.053	48	+/- 0.015
LOI371	%	7.257	0.044	48	+/- 0.013
LOI425	%	7.462	0.037	47	+/- 0.011
LOI650	%	7.873	0.046	48	+/- 0.013
LOI1000	%	8.078	0.046	48	+/- 0.013

Control Statistic Details

Control values for this material were determined during a certification program. LOI results are based on drying at 105

Certification Date

This material was certified with the above values on: 8/09/2015

Source Material

20 Hines Road, 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

Prior to homogenisation and testing, this material was sourced from
Composite of Pilbara ore

Usage

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 6 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.