

Certified Pulp Iron Ore Reference Material - GIOP-148

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	58.9	0.12	60	+/- 0.03
Fe Calc	%	58.903	0.042	46	+/- 0.013
SiO2	%	4.452	0.031	60	+/- 0.008
Al2O3	%	2.324	0.024	59	+/- 0.006
TiO2	%	0.1091	0.0032	60	+/- 0.0008
Mn	%	0.1869	0.0043	60	+/- 0.0011
CaO	%	0.1025	0.0049	60	+/- 0.0013
P	%	0.0807	0.0012	58	+/- 0.0003
S	%	0.0302	0.001	58	+/- 0.0003
MgO	%	0.0594	0.0089	57	+/- 0.0024
K2O	%	0.0117	0.0021	60	+/- 0.0005
Zn	%	0.0027	0.00053	38	+/- 0.00018
Pb	%	0.0042			
Cu	%	0.0021			
Ba	%	0.0041			
V	%	0.00193	0.00052	35	+/- 0.00018
Cr	%	0.00185	0.00062	32	+/- 0.00023
Cl	%	0.0073	0.0021	47	+/- 0.0006
As	%	0.0016			
Ni	%	0.0021			
Co	%	0.001			
Sr	%	0.0051	0.0018	43	+/- 0.0005
Zr	%	0.0031	0.0011	35	+/- 0.0004
Na	%	0.0131	0.0047	45	+/- 0.0014
LOI140	%	0.202	0.041	48	+/- 0.012
LOI371	%	7.298	0.051	50	+/- 0.015
LOI425	%	7.514	0.056	50	+/- 0.016
LOI650	%	7.989	0.042	49	+/- 0.012
LOI1000	%	8.2	0.049	48	+/- 0.014

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

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

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Mining Industry Consultants
Reference Material Manufacture and Sales

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.