

Certified Pulp Iron Ore Reference Material - GIOP-145

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	60.21	0.12	58	+/- 0.03
Fe Calc	%	60.175	0.036	38	+/- 0.012
SiO2	%	3.571	0.026	59	+/- 0.007
Al2O3	%	2.017	0.023	59	+/- 0.006
TiO2	%	0.0787	0.0041	60	+/- 0.0011
Mn	%	0.2292	0.0033	60	+/- 0.0008
CaO	%	0.0291	0.0055	60	+/- 0.0014
P	%	0.05915	0.00096	57	+/- 0.00026
S	%	0.01967	0.00092	49	+/- 0.00027
MgO	%	0.0654	0.0093	56	+/- 0.0025
K2O	%	0.00923	0.00093	36	+/- 0.00032
Zn	%	0.00384	0.00054	37	+/- 0.00018
Pb	%	0.0051			
Cu	%	0.0018			
Ba	%	0.006	0.0022	32	+/- 0.0008
V	%	0.00203	0.0001	32	+/- 0.00004
Cr	%	0.0013			
Cl	%	0.0083	0.0023	50	+/- 0.0007
As	%	0.0016			
Ni	%	0.0018			
Co	%	0.00183	0.00076	32	+/- 0.00028
Sr	%	0.0204	0.0019	60	+/- 0.0005
Zr	%	0.0026			
Na	%	0.0131	0.0072	37	+/- 0.0024
LOI140	%	0.23	0.043	49	+/- 0.013
LOI371	%	6.838	0.046	49	+/- 0.013
LOI425	%	7.037	0.043	47	+/- 0.013
LOI650	%	7.456	0.054	49	+/- 0.016
LOI1000	%	7.658	0.047	47	+/- 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.