

Certified Pulp Iron Ore Reference Material - GIOP-141

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	63.226	0.09	50	+/- 0.026
Fe Calc	%	63.202	0.081	50	+/- 0.023
SiO2	%	3.548	0.038	60	+/- 0.01
Al2O3	%	1.8	0.03	60	+/- 0.008
TiO2	%	0.0579	0.0038	60	+/- 0.001
Mn	%	0.0691	0.0013	60	+/- 0.0003
CaO	%	0.036	0.0077	60	+/- 0.002
P	%	0.0665	0.0019	60	+/- 0.0005
S	%	0.0281	0.0016	59	+/- 0.0004
MgO	%	0.1003	0.0087	53	+/- 0.0024
K2O	%	0.0189	0.0015	60	+/- 0.0004
Zn	%	0.00282	0.00098	42	+/- 0.00031
Pb	%	0.0034			
Cu	%	0.0043	0.0012	49	+/- 0.0003
Ba	%	0.004			
V	%	0.0022	0.0012	42	+/- 0.0004
Cr	%	0.0154	0.0026	60	+/- 0.0007
Cl	%	0.0103	0.0045	56	+/- 0.0012
As	%	0.00195	0.0009	38	+/- 0.0003
Ni	%	0.0055	0.0012	49	+/- 0.0004
Co	%	0.00159	0.00069	30	+/- 0.00026
Sn	%	0.0051			
Sr	%	0.0027	0.0012	38	+/- 0.0004
Zr	%	0.0027	0.0012	30	+/- 0.0005
Na	%	0.024	0.014	50	+/- 0.004
LOI425	%	3.015	0.06	57	+/- 0.016
LOI650	%	3.447	0.054	57	+/- 0.014
LOI1000	%	3.687	0.063	57	+/- 0.017

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: 15/08/2014

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.