

Certified Pulp Iron Ore Reference Material - GIOP-140

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	47.31	0.26	59	+/- 0.07
Fe Calc	%	47.3	0.25	59	+/- 0.07
SiO2	%	19.96	0.22	59	+/- 0.06
Al2O3	%	4.1	0.07	59	+/- 0.018
TiO2	%	0.263	0.0075	60	+/- 0.002
Mn	%	0.2432	0.0075	55	+/- 0.0021
CaO	%	0.299	0.015	55	+/- 0.004
P	%	0.0799	0.0013	60	+/- 0.0003
S	%	0.0234	0.002	58	+/- 0.0005
MgO	%	0.284	0.014	60	+/- 0.004
K2O	%	0.0975	0.0034	57	+/- 0.0009
Zn	%	0.0052	0.0011	50	+/- 0.0003
Pb	%	0.003			
Cu	%	0.00242	0.00098	38	+/- 0.00032
Ba	%	0.0062			
V	%	0.00547	0.00087	50	+/- 0.00025
Cr	%	0.004	0.0017	41	+/- 0.0005
Cl	%	0.0085	0.004	54	+/- 0.0011
As	%	0.00292	0.00083	40	+/- 0.00027
Ni	%	0.0019	0.00066	36	+/- 0.00023
Co	%	0.0016			
Sn	%	0.0053			
Sr	%	0.0042	0.0019	43	+/- 0.0006
Zr	%	0.006	0.0017	40	+/- 0.0006
Na	%	0.0231	0.0055	48	+/- 0.0016
LOI425	%	5.097	0.094	58	+/- 0.025
LOI650	%	6.333	0.093	59	+/- 0.024
LOI1000	%	6.55	0.096	59	+/- 0.025

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.