

Certified Pulp Iron Ore Reference Material - GIOP-138

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	58.89	0.14	50	+/- 0.04
Fe Calc	%	58.878	0.094	49	+/- 0.027
SiO2	%	4.487	0.048	59	+/- 0.013
Al2O3	%	3.261	0.056	60	+/- 0.015
TiO2	%	0.1628	0.0042	60	+/- 0.0011
Mn	%	0.1264	0.004	60	+/- 0.001
CaO	%	0.0311	0.0057	60	+/- 0.0015
P	%	0.0535	0.0019	60	+/- 0.0005
S	%	0.0287	0.0012	60	+/- 0.0003
MgO	%	0.0606	0.0065	53	+/- 0.0018
K2O	%	0.0123	0.0019	60	+/- 0.0005
Zn	%	0.002			
Pb	%	0.0031			
Cu	%	0.0023			
Ba	%	0.0032			
V	%	0.00304	0.00088	48	+/- 0.00026
Cr	%	0.0029	0.0014	40	+/- 0.0005
Cl	%	0.0098	0.0045	55	+/- 0.0012
As	%	0.0019	0.00098	31	+/- 0.00036
Ni	%	0.00174	0.00072	30	+/- 0.00027
Co	%	0.0017			
Sn	%	0.0049			
Sr	%	0.00226	0.00073	32	+/- 0.00027
Zr	%	0.0035	0.0015	40	+/- 0.0005
Na	%	0.0128	0.005	35	+/- 0.0017
LOI425	%	6.621	0.097	57	+/- 0.026
LOI650	%	7.145	0.091	57	+/- 0.024
LOI1000	%	7.363	0.096	57	+/- 0.026

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.