

Certified Pulp Iron Ore Reference Material - GIOP-117

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	69.631	0.095	49	+/- 0.028
Fe (Calc)	%	69.617	0.066	50	+/- 0.019
SiO2	%	0.203	0.017	49	+/- 0.005
Al2O3	%	0.06	0.018	50	+/- 0.005
TiO2	%	0.0902	0.0087	50	+/- 0.0025
Mn	%	0.008	0.0017	36	+/- 0.0006
CaO	%	0.01			
P	%	0.00325	0.00087	40	+/- 0.00028
S	%	0.0026	0.00096	40	+/- 0.00031
MgO	%	0.013			
K2O	%	0.0026			
Zn	%	0.0014			
Pb	%	0.0048			
Cu	%	0.0037			
Ba	%	0.0038			
V	%	0.0013			
Cr	%	0.0031			
Cl	%	0.012	0.0036	44	+/- 0.0011
As	%	0.0038			
Ni	%	0.0026			
Co	%	0.001			
Sn	%	0.0052			
Sr	%	0.0067			
Zr	%	0.0097			
Na	%	0.011			
LOI425	%	0.079	0.024	50	+/- 0.007
LOI650	%	0.069	0.027	50	+/- 0.008
LOI	%	0.085	0.025	49	+/- 0.007

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: 23/06/2011

Source Material

Prior to homogenisation and testing, this material was sourced from Cockatoo Island

Usage

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Website <http://www.geostats.com.au>

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

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 5 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.