

Certified Pulp Iron Ore Reference Material - GIOP-142

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	56.58	0.14	60	+/- 0.04
Fe Calc	%	56.575	0.065	49	+/- 0.019
SiO2	%	6.704	0.031	59	+/- 0.008
Al2O3	%	3.032	0.025	59	+/- 0.007
TiO2	%	0.1782	0.0042	59	+/- 0.0011
Mn	%	0.0892	0.0026	56	+/- 0.0007
CaO	%	0.2678	0.0062	60	+/- 0.0016
P	%	0.0412	0.0012	60	+/- 0.0003
S	%	0.01404	0.00095	40	+/- 0.00031
MgO	%	0.218	0.01	56	+/- 0.003
K2O	%	0.0109	0.0013	57	+/- 0.0004
Zn	%	0.00871	0.00076	57	+/- 0.0002
Pb	%	0.0038			
Cu	%	0.0019			
Ba	%	0.0052			
V	%	0.00499	0.00079	50	+/- 0.00023
Cr	%	0.00206	0.0008	34	+/- 0.00028
Cl	%	0.0035			
As	%	0.0015			
Ni	%	0.002	0.0011	33	+/- 0.0004
Co	%	0.00182	0.00069	34	+/- 0.00025
Sr	%	0.004	0.0014	34	+/- 0.0005
Zr	%	0.0054	0.0011	39	+/- 0.0004
Na	%	0.0126	0.0056	45	+/- 0.0017
LOI140	%	0.336	0.058	50	+/- 0.017
LOI371	%	7.237	0.047	50	+/- 0.013
LOI425	%	7.495	0.042	50	+/- 0.012
LOI650	%	8.094	0.051	50	+/- 0.015
LOI1000	%	8.368	0.057	50	+/- 0.016

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

20 Hines Road, O'Connor
Western Australia 6163
Phone +618 93142566 Fax +618 93143699
Email info@geostats.com.au
Website <http://www.geostats.com.au>

GEOSTATS PTY LTD

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.