

Certified Pulp Iron Ore Reference Material - GIOP-110

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	33.21	0.12	48	+/- 0.04
SiO ₂	%	50.09	0.22	49	+/- 0.06
Al ₂ O ₃	%	0.0893	0.0085	46	+/- 0.0026
TiO ₂	%	0.0141	0.005	34	+/- 0.0018
Mn	%	0.021	0.0015	50	+/- 0.0004
CaO	%	1.417	0.015	49	+/- 0.004
P	%	0.0928	0.0017	50	+/- 0.0005
S	%	0.0042	0.0022	45	+/- 0.0007
MgO	%	1.778	0.02	49	+/- 0.006
K ₂ O	%	0.0159	0.0044	49	+/- 0.0013
Zn	%	0.0031	0.0028	30	+/- 0.0011
Pb	%	0.0022			
Cu	%	0.0055			
Ba	%	0.0046			
V	%	0.001			
Cr	%	0.0048			
Cl	%	0.0047			
As	%	0.0032			
Ni	%	0.0064			
Co	%	0.0032			
Sn	%	0.0016			
Sr	%	0.0056			
Zr	%	0.0015			
Na	%	0.0152	0.0065	40	+/- 0.0021
LOI ₄₂₅	%	-0.135	0.029	34	+/- 0.01
LOI ₆₅₀	%	-0.766	0.088	38	+/- 0.029
LOI	%	-1.17	0.032	47	+/- 0.01

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:

20/07/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
 Yilgarn, Western Australia

Usage

10A Marsh Close, 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

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.