

Certified Pulp Iron Ore Reference Material - GIOP-48

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	45.93	0.15	46	+/- 0.05
Fe (Calc)	%	45.94	0.16	46	+/- 0.05
SiO ₂	%	18.36	0.24	50	+/- 0.07
Al ₂ O ₃	%	4.322	0.044	48	+/- 0.013
TiO ₂	%	0.2487	0.0045	48	+/- 0.0013
Mn	%	0.365	0.0087	49	+/- 0.0025
CaO	%	0.879	0.016	49	+/- 0.005
P	%	0.0584	0.0015	49	+/- 0.0004
S	%	0.0347	0.0018	50	+/- 0.0005
MgO	%	0.76	0.021	50	+/- 0.006
K ₂ O	%	0.1225	0.0031	45	+/- 0.0009
Zn	%	0.0045	0.0014	33	+/- 0.0005
Pb	%	0.0065			
Cu	%	0.0042	0.0026	34	+/- 0.0009
Ba	%	0.0053			
V	%	0.0037	0.0017	35	+/- 0.0006
Cr	%	0.00412	0.00088	40	+/- 0.00029
Cl	%	0.0099	0.003	33	+/- 0.0011
As	%	0.0043			
Ni	%	0.0037			
Co	%	0.0032			
Sn	%	0.0089			
Sr	%	0.0026			
Zr	%	0.0052			
Na	%	0.0231	0.0073	45	+/- 0.0022
LOI ₄₂₅	%	6.415	0.099	47	+/- 0.029
LOI ₆₅₀	%	8.39	0.25	50	+/- 0.07
LOI	%	8.813	0.088	46	+/- 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:

1/12/2010

Source Material

Prior to homogenisation and testing, this material was sourced from
 Pilbara

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.