

Certified Pulp Iron Ore Reference Material - GIOP-64

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	56.32	0.22	50	+/- 0.06
Fe (Calc)	%	56.36	0.097	45	+/- 0.029
SiO ₂	%	8.069	0.099	47	+/- 0.029
Al ₂ O ₃	%	2.557	0.04	50	+/- 0.011
TiO ₂	%	0.073	0.0051	50	+/- 0.0014
Mn	%	1.885	0.038	48	+/- 0.011
CaO	%	0.1532	0.0068	50	+/- 0.002
P	%	0.0369	0.0013	50	+/- 0.0004
S	%	0.0268	0.0012	50	+/- 0.0003
MgO	%	0.146	0.012	50	+/- 0.003
K ₂ O	%	0.096	0.004	50	+/- 0.0012
Zn	%	0.0038			
Pb	%	0.0094			
Cu	%	0.0054			
Ba	%	0.045	0.0052	48	+/- 0.0015
V	%	0.0021			
Cr	%	0.0103	0.0027	45	+/- 0.0008
Cl	%	0.0297	0.0074	50	+/- 0.0021
As	%	0.0034			
Ni	%	0.0037			
Co	%	0.0034			
Sn	%	0.0029			
Sr	%	0.0031			
Zr	%	0.0065			
Na	%	0.0412	0.0091	50	+/- 0.0026
LOI ₄₂₅	%	4.287	0.054	47	+/- 0.016
LOI ₆₅₀	%	5.13	0.042	48	+/- 0.012
LOI	%	5.527	0.058	50	+/- 0.017

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.