

Certified Pulp Iron Ore Reference Material - GIOP-49

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	46.12	0.13	46	+/- 0.04
Fe (Calc)	%	46.11	0.15	47	+/- 0.04
SiO ₂	%	18.93	0.15	46	+/- 0.04
Al ₂ O ₃	%	3.994	0.036	46	+/- 0.011
TiO ₂	%	0.2286	0.0059	49	+/- 0.0017
Mn	%	0.2534	0.0054	48	+/- 0.0016
CaO	%	0.904	0.013	47	+/- 0.004
P	%	0.0547	0.0019	49	+/- 0.0005
S	%	0.0298	0.0022	49	+/- 0.0006
MgO	%	0.762	0.02	49	+/- 0.006
K ₂ O	%	0.1051	0.0035	46	+/- 0.0011
Zn	%	0.004	0.0014	32	+/- 0.0005
Pb	%	0.0043			
Cu	%	0.0035	0.0024	36	+/- 0.0008
Ba	%	0.0044			
V	%	0.0033	0.0015	36	+/- 0.0005
Cr	%	0.0038	0.0011	37	+/- 0.0004
Cl	%	0.0122	0.0054	42	+/- 0.0017
As	%	0.0037			
Ni	%	0.0038			
Co	%	0.003			
Sn	%	0.011			
Sr	%	0.0028			
Zr	%	0.0047			
Na	%	0.0212	0.0073	41	+/- 0.0023
LOI ₄₂₅	%	6.104	0.093	44	+/- 0.028
LOI ₆₅₀	%	8.01	0.26	46	+/- 0.08
LOI	%	8.419	0.089	45	+/- 0.027

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.