

Certified Pulp Iron Ore Reference Material - GIOP-58

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	42.98	0.17	48	+/- 0.05
Fe (Calc)	%	42.99	0.16	48	+/- 0.05
SiO ₂	%	14.01	0.13	46	+/- 0.04
Al ₂ O ₃	%	12.66	0.15	50	+/- 0.04
TiO ₂	%	1.124	0.012	44	+/- 0.004
Mn	%	0.0131	0.003	40	+/- 0.001
CaO	%	0.1788	0.0082	50	+/- 0.0024
P	%	0.02763	0.00072	43	+/- 0.00023
S	%	0.0261	0.0011	49	+/- 0.0003
MgO	%	0.17	0.014	50	+/- 0.004
K ₂ O	%	0.0305	0.0041	50	+/- 0.0012
Zn	%	0.0035			
Pb	%	0.008			
Cu	%	0.0051			
Ba	%	0.0063	0.0041	31	+/- 0.0015
V	%	0.0511	0.0013	50	+/- 0.0004
Cr	%	0.0108	0.0011	50	+/- 0.0003
Cl	%	0.012	0.0033	45	+/- 0.001
As	%	0.0041			
Ni	%	0.0045			
Co	%	0.0046			
Sn	%	0.0047			
Sr	%	0.0027			
Zr	%	0.0187	0.0043	49	+/- 0.0013
Na	%	0.0318	0.01	49	+/- 0.0029
LOI ₄₂₅	%	7.18	0.13	48	+/- 0.04
LOI ₆₅₀	%	9.812	0.082	46	+/- 0.025
LOI	%	10.154	0.078	47	+/- 0.023

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.