

Certified Pulp Iron Ore Reference Material - GIOP-61

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	57.14	0.14	46	+/- 0.04
Fe (Calc)	%	57.12	0.096	48	+/- 0.028
SiO ₂	%	5.946	0.072	48	+/- 0.021
Al ₂ O ₃	%	2.523	0.028	48	+/- 0.008
TiO ₂	%	0.1144	0.0061	50	+/- 0.0018
Mn	%	0.228	0.013	48	+/- 0.004
CaO	%	0.1722	0.0089	50	+/- 0.0025
P	%	0.0426	0.0012	50	+/- 0.0003
S	%	0.0386	0.0013	50	+/- 0.0004
MgO	%	0.07	0.013	50	+/- 0.004
K ₂ O	%	0.0195	0.0035	49	+/- 0.001
Zn	%	0.0042	0.0018	30	+/- 0.0007
Pb	%	0.0067			
Cu	%	0.0038			
Ba	%	0.0069			
V	%	0.0027			
Cr	%	0.0036			
Cl	%	0.0089	0.003	43	+/- 0.0009
As	%	0.0031			
Ni	%	0.0037			
Co	%	0.0032			
Sn	%	0.0035			
Sr	%	0.0028			
Zr	%	0.0048			
Na	%	0.0199	0.0072	44	+/- 0.0022
LOI ₄₂₅	%	8.015	0.061	47	+/- 0.018
LOI ₆₅₀	%	8.717	0.053	48	+/- 0.016
LOI	%	8.961	0.056	49	+/- 0.016

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.