

Certified Pulp Iron Ore Reference Material - GIOP-60

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	57.01	0.16	48	+/- 0.05
Fe (Calc)	%	57.038	0.075	46	+/- 0.023
SiO ₂	%	6.012	0.057	48	+/- 0.017
Al ₂ O ₃	%	2.571	0.032	47	+/- 0.01
TiO ₂	%	0.1188	0.0059	50	+/- 0.0017
Mn	%	0.2287	0.0094	47	+/- 0.0028
CaO	%	0.1771	0.0068	49	+/- 0.002
P	%	0.0426	0.0013	50	+/- 0.0004
S	%	0.0407	0.0013	49	+/- 0.0004
MgO	%	0.0739	0.0098	46	+/- 0.0029
K ₂ O	%	0.0198	0.004	48	+/- 0.0012
Zn	%	0.0041			
Pb	%	0.01			
Cu	%	0.0043			
Ba	%	0.0061			
V	%	0.0019			
Cr	%	0.00336	0.00099	32	+/- 0.00036
Cl	%	0.0093	0.0039	43	+/- 0.0012
As	%	0.0036			
Ni	%	0.0031			
Co	%	0.0036			
Sn	%	0.006			
Sr	%	0.0024			
Zr	%	0.0068			
Na	%	0.018	0.0074	46	+/- 0.0022
LOI ₄₂₅	%	7.98	0.067	47	+/- 0.02
LOI ₆₅₀	%	8.698	0.061	49	+/- 0.018
LOI	%	8.948	0.049	47	+/- 0.014

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.