

Certified Pulp Iron Ore Reference Material - GIOP-82

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	61.58	0.13	49	+/- 0.04
Fe (Calc)	%	61.584	0.091	49	+/- 0.026
SiO ₂	%	3.079	0.034	50	+/- 0.01
Al ₂ O ₃	%	1.255	0.016	50	+/- 0.005
TiO ₂	%	0.697	0.023	49	+/- 0.007
Mn	%	0.2102	0.0088	50	+/- 0.0025
CaO	%	0.02	0.002	50	+/- 0.0006
P	%	0.0524	0.00095	50	+/- 0.00027
S	%	0.0155	0.0019	50	+/- 0.0005
MgO	%	0.04	0.0083	50	+/- 0.0024
K ₂ O	%	0.0097	0.0013	30	+/- 0.0005
Zn	%	0.0023			
Pb	%	0.013	0.011	42	+/- 0.003
Cu	%	0.0037			
Ba	%	0.0068			
V	%	0.0021			
Cr	%	0.0035			
Cl	%	0.0118	0.0014	44	+/- 0.0004
As	%	0.0017			
Ni	%	0.0041			
Co	%	0.0024			
Sn	%	0.0033			
Sr	%	0.0038			
Zr	%	0.0058			
Na	%	0.0172	0.0095	31	+/- 0.0035
LOI ₄₂₅	%	5.87	0.045	48	+/- 0.013
LOI ₆₅₀	%	6.252	0.032	45	+/- 0.01
LOI	%	6.411	0.032	43	+/- 0.01

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:

1/02/2011

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.