

Certified Pulp Iron Ore Reference Material - GIOP-91

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	26.395	0.094	40	+/- 0.031
Fe (Calc)	%	25.91	0.6	50	+/- 0.17
SiO ₂	%	52.6	0.12	40	+/- 0.04
Al ₂ O ₃	%	1.729	0.028	50	+/- 0.008
TiO ₂	%	0.1054	0.0071	50	+/- 0.002
Mn	%	0.0631	0.0091	50	+/- 0.0026
CaO	%	3.014	0.024	50	+/- 0.007
P	%	0.0652	0.0011	50	+/- 0.0003
S	%	0.921	0.026	50	+/- 0.007
MgO	%	4.152	0.06	50	+/- 0.017
K ₂ O	%	0.2164	0.0057	50	+/- 0.0016
Zn	%	0.0078	0.004	30	+/- 0.0015
Pb	%	0.0052			
Cu	%	0.0254	0.0043	30	+/- 0.0016
Ba	%	0.0093			
V	%	0.0053	0.0017	34	+/- 0.0006
Cr	%	0.0124	0.0029	40	+/- 0.0009
Cl	%	0.0076	0.002	30	+/- 0.0008
As	%	0.0044			
Ni	%	0.01	0.0034	37	+/- 0.0012
Co	%	0.0048	0.0039	30	+/- 0.0015
Sn	%	0.0024			
Sr	%	0.0095			
Zr	%	0.0017			
Na	%	0.118	0.016	40	+/- 0.005
LOI ₄₂₅	%	-0.309	0.097	40	+/- 0.031
LOI ₆₅₀	%	-0.49	0.15	50	+/- 0.04
LOI	%	-0.088	0.051	50	+/- 0.015

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:

1/05/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
 Yilgarn, Western Australia

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.