

Certified Pulp Iron Ore Reference Material - GIOP-131

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	41.08	0.12	49	+/- 0.04
Fe Calc	%	41.11	0.13	50	+/- 0.04
SiO ₂	%	17.619	0.093	50	+/- 0.027
Al ₂ O ₃	%	12.77	0.1	50	+/- 0.03
TiO ₂	%	0.8557	0.0087	50	+/- 0.0025
Mn	%	0.0612	0.0016	46	+/- 0.0005
CaO	%	2.23	0.024	50	+/- 0.007
P	%	0.0561	0.0012	50	+/- 0.0004
S	%	0.0329	0.0021	50	+/- 0.0006
MgO	%	1.231	0.015	50	+/- 0.004
K ₂ O	%	0.151	0.0014	50	+/- 0.0004
Zn	%	0.00326	0.0006	34	+/- 0.00021
Pb	%	0.0016			
Cu	%	0.0017			
Ba	%	0.0081	0.0032	31	+/- 0.0012
V	%	0.0166	0.0018	46	+/- 0.0006
Cr	%	0.009	0.0013	41	+/- 0.0004
Cl	%	0.004	0.00091	30	+/- 0.00035
As	%	0.001			
Ni	%	0.00236	0.0006	31	+/- 0.00022
Co	%	0.0015			
Sn	%	0.0015			
Sr	%	0.0086	0.0029	42	+/- 0.0009
Zr	%	0.0173	0.0021	48	+/- 0.0006
Na	%	0.5184	0.0092	50	+/- 0.0026
LOI ₄₂₅	%	4.877	0.083	50	+/- 0.024
LOI ₆₅₀	%	5.374	0.042	40	+/- 0.014
LOI ₁₀₀₀	%	5.405	0.042	40	+/- 0.013

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:

18/03/2014

Source Material

Prior to homogenisation and testing, this material was sourced from
 Composite of Pilbara and Simandou ore

Usage

10A Marsh Close, O'Connor
Western Australia 6163
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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.