

Certified Pulp Iron Ore Reference Material - GIOP-133

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	45.481	0.095	49	+/- 0.028
Fe Calc	%	45.47	0.12	49	+/- 0.03
SiO ₂	%	14.796	0.089	49	+/- 0.026
Al ₂ O ₃	%	10.86	0.08	50	+/- 0.023
TiO ₂	%	0.7211	0.0082	49	+/- 0.0024
Mn	%	0.06048	0.00091	50	+/- 0.00026
CaO	%	1.863	0.023	50	+/- 0.007
P	%	0.0573	0.0011	49	+/- 0.0003
S	%	0.0277	0.0016	50	+/- 0.0005
MgO	%	1.029	0.012	50	+/- 0.003
K ₂ O	%	0.1277	0.0019	50	+/- 0.0005
Zn	%	0.00297	0.00078	32	+/- 0.00029
Pb	%	0.0021			
Cu	%	0.0013			
Ba	%	0.0081	0.0031	35	+/- 0.0011
V	%	0.0129	0.0018	49	+/- 0.0005
Cr	%	0.00784	0.00098	40	+/- 0.00032
Cl	%	0.00357	0.0009	30	+/- 0.00034
As	%	0.001			
Ni	%	0.00233	0.0008	32	+/- 0.00029
Co	%	0.0014			
Sn	%	0.0018			
Sr	%	0.0075	0.003	44	+/- 0.0009
Zr	%	0.0136	0.0025	46	+/- 0.0008
Na	%	0.4342	0.0083	50	+/- 0.0024
LOI ₄₂₅	%	4.334	0.073	50	+/- 0.021
LOI ₆₅₀	%	4.754	0.04	40	+/- 0.013
LOI ₁₀₀₀	%	4.762	0.041	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
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.