

Certified Pulp Iron Ore Reference Material - GIOP-78

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	57.83	0.12	48	+/- 0.03
Fe (Calc)	%	57.838	0.073	48	+/- 0.021
SiO2	%	5.017	0.037	49	+/- 0.011
Al2O3	%	2.484	0.028	50	+/- 0.008
TiO2	%	0.1272	0.0045	50	+/- 0.0013
Mn	%	0.0792	0.0012	48	+/- 0.0004
CaO	%	0.2818	0.0056	50	+/- 0.0016
P	%	0.0401	0.00082	49	+/- 0.00024
S	%	0.0146	0.0021	50	+/- 0.0006
MgO	%	0.165	0.01	50	+/- 0.003
K2O	%	0.0083			
Zn	%	0.0076	0.0011	39	+/- 0.0004
Pb	%	0.0086			
Cu	%	0.0032			
Ba	%	0.0022			
V	%	0.00281	0.00085	36	+/- 0.00029
Cr	%	0.0026			
Cl	%	0.0073	0.001	38	+/- 0.0003
As	%	0.0024			
Ni	%	0.0017			
Co	%	0.0031			
Sn	%	0.0043			
Sr	%	0.003			
Zr	%	0.0043			
Na	%	0.0167	0.0075	38	+/- 0.0025
LOI425	%	7.973	0.059	47	+/- 0.018
LOI650	%	8.704	0.068	48	+/- 0.02
LOI	%	8.967	0.062	47	+/- 0.019

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
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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.