

Certified Pulp Iron Ore Reference Material - GIOP-115

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	61.28	0.12	50	+/- 0.03
Fe (Calc)	%	61.261	0.073	49	+/- 0.021
SiO ₂	%	9.046	0.06	50	+/- 0.017
Al ₂ O ₃	%	1.748	0.023	48	+/- 0.007
TiO ₂	%	0.199	0.0089	50	+/- 0.0025
Mn	%	0.0166	0.0032	50	+/- 0.0009
CaO	%	0.2298	0.0053	48	+/- 0.0015
P	%	0.00882	0.0009	50	+/- 0.00026
S	%	0.0073	0.0011	48	+/- 0.0003
MgO	%	0.1622	0.0089	50	+/- 0.0025
K ₂ O	%	0.0205	0.0014	50	+/- 0.0004
Zn	%	0.0011			
Pb	%	0.0029			
Cu	%	0.0022			
Ba	%	0.0043			
V	%	0.00314	0.00077	31	+/- 0.00029
Cr	%	0.0033			
Cl	%	0.0536	0.0087	50	+/- 0.0025
As	%	0.0018			
Ni	%	0.0027			
Co	%	0.0013			
Sn	%	0.0061			
Sr	%	0.0044			
Zr	%	0.0187	0.0041	49	+/- 0.0012
Na	%	0.0595	0.0059	48	+/- 0.0017
LOI ₄₂₅	%	0.567	0.041	49	+/- 0.012
LOI ₆₅₀	%	0.77	0.042	50	+/- 0.012
LOI	%	0.817	0.043	50	+/- 0.012

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:

23/06/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
 Cockatoo Island

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.