

Certified Pulp Iron Ore Reference Material - GIOP-128

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	16.494	0.057	54	+/- 0.016
Fe Calc	%	16.485	0.063	56	+/- 0.017
SiO ₂	%	21.726	0.091	60	+/- 0.024
Al ₂ O ₃	%	34.64	0.12	60	+/- 0.03
TiO ₂	%	1.581	0.008	60	+/- 0.0021
Mn	%	0.0336	0.004	59	+/- 0.0011
CaO	%	0.0207	0.0046	58	+/- 0.0012
P	%	0.012	0.002	60	+/- 0.0005
S	%	0.0518	0.0038	60	+/- 0.001
MgO	%	0.035	0.01	60	+/- 0.003
K ₂ O	%	0.1797	0.0023	51	+/- 0.0007
Zn	%	0.0033			
Pb	%	0.0066			
Cu	%	0.004			
Ba	%	0.0063			
V	%	0.0424	0.0011	51	+/- 0.0003
Cr	%	0.0151	0.0014	50	+/- 0.0004
Cl	%	0.0085	0.0055	30	+/- 0.0021
As	%	0.0034	0.0023	30	+/- 0.0009
Ni	%	0.0038			
Co	%	0.0095			
Sn	%	0.0061			
Sr	%	0.0047	0.0036	33	+/- 0.0013
Zr	%	0.049	0.0064	60	+/- 0.0017
Na	%	0.0194	0.0075	50	+/- 0.0022
LOI425	%	15.68	0.16	60	+/- 0.04
LOI650	%	17.472	0.07	53	+/- 0.02
LOI1000	%	17.964	0.092	60	+/- 0.024

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:

19/02/2013

Source Material

Prior to homogenisation and testing, this material was sourced from
 Laterite

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 6 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.