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GEOSTATS PTY LTD
Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material - GIOP-127

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	64.499	0.09	59	+/- 0.024
Fe Calc	%	64.499	0.075	60	+/- 0.02
SiO2	%	2.578	0.018	60	+/- 0.005
Al2O3	%	2.815	0.019	60	+/- 0.005
TiO2	%	0.0581	0.0035	60	+/- 0.0009
Mn	%	0.0633	0.0041	60	+/- 0.0011
CaO	%	0.1522	0.0061	60	+/- 0.0016
P	%	0.0457	0.0014	60	+/- 0.0004
S	%	0.0133	0.0014	60	+/- 0.0004
MgO	%	0.0644	0.0096	60	+/- 0.0025
K2O	%	0.0195	0.001	59	+/- 0.0003
Zn	%	0.0023	0.0013	36	+/- 0.0004
Pb	%	0.0065	0.0054	37	+/- 0.0018
Cu	%	0.0024	0.0012	31	+/- 0.0005
Ba	%	0.0072	0.0025	34	+/- 0.0009
V	%	0.01274	0.00059	50	+/- 0.00017
Cr	%	0.007	0.0013	52	+/- 0.0004
Cl	%	0.0066	0.0021	43	+/- 0.0007
As	%	0.0066	0.0011	40	+/- 0.0003
Ni	%	0.0042	0.0014	40	+/- 0.0004
Co	%	0.0034			
Sn	%	0.014			
Sr	%	0.0036	0.0021	37	+/- 0.0007
Zr	%	0.0028			
Na	%	0.0184	0.0058	49	+/- 0.0017
LOI425	%	1.098	0.037	59	+/- 0.01
LOI650	%	1.666	0.029	56	+/- 0.008
LOI1000	%	1.834	0.028	57	+/- 0.008

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

Oxide overburden

Usage

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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.