

**Certified Pulp Iron Ore Reference Material - GIOP-143**

**Certificate of Analysis**

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Fe	%	62.97	0.14	60	+/- 0.04
Fe Calc	%	62.956	0.047	50	+/- 0.014
SiO2	%	3.086	0.022	49	+/- 0.006
Al2O3	%	1.49	0.022	58	+/- 0.006
TiO2	%	0.0531	0.0045	60	+/- 0.0012
Mn	%	0.1353	0.0044	60	+/- 0.0011
CaO	%	0.0348	0.0052	60	+/- 0.0014
P	%	0.064	0.001	48	+/- 0.0003
S	%	0.01731	0.00089	49	+/- 0.00026
MgO	%	0.0475	0.007	49	+/- 0.002
K2O	%	0.00942	0.00097	40	+/- 0.00032
Zn	%	0.00168	0.00059	31	+/- 0.00022
Pb	%	0.004			
Cu	%	0.0021			
Ba	%	0.0059			
V	%	0.0016	0.0005	30	+/- 0.00019
Cr	%	0.0016			
Cl	%	0.009	0.0025	52	+/- 0.0007
As	%	0.0016			
Ni	%	0.0028			
Co	%	0.00187	0.0009	30	+/- 0.00034
Sn	%	0.001			
Sr	%	0.0029	0.0011	31	+/- 0.0004
Zr	%	0.0018			
Na	%	0.0121	0.0048	38	+/- 0.0016
LOI140	%	0.129	0.036	50	+/- 0.01
LOI371	%	4.234	0.029	47	+/- 0.009
LOI425	%	4.379	0.042	50	+/- 0.012
LOI650	%	4.717	0.034	49	+/- 0.01
LOI1000	%	4.898	0.041	46	+/- 0.012

**Control Statistic Details**

Control values for this material were determined during a certification program. LOI results are based on drying at 105

**Certification Date**

This material was certified with the above values on: 8/09/2015

**Source Material**

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Western Australia 6163  
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Email [info@geostats.com.au](mailto:info@geostats.com.au)  
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Prior to homogenisation and testing, this material was sourced from  
Composite of Pilbara ore

**Usage**

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.