

**GEOSTATS PTY LTD**  
Sample and Assay Monitoring Services

**GIOP-2**

Certified Iron Ore Reference Material

**GIOP-2**

Certified Control Values

Iron Ore Analyses					
Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	43.4	0.327	29	+/- 0.119
SiO2	%	13.8	0.203	29	+/- 0.074
Al2O3	%	12.5	0.132	29	+/- 0.048
P	%	0.029	0.0020	30	+/- 0.001
S	%	0.020	0.0066	30	+/- 0.002
CaO	%	0.159	0.0142	29	+/- 0.005
TiO2	%	1.11	0.0142	29	+/- 0.005
MnO	%	0.018	0.0069	28	+/- 0.003
MgO	%	0.221	0.0827	30	+/- 0.03
K2O	%	0.029	0.0047	30	+/- 0.002
Na2O	%	0.032	0.0060	20	+/- 0.003
LOI	%	10.1	0.2539	30	+/- 0.091

CRM Details

<u>Control Statistic Details</u>		<u>Non-certified values</u>	
Control values for this material were determined during a certification program.		Element	%
<u>Certification Date</u>	This material was certified with the above values on: May 2006	As	<0.001
<u>Source Material</u>	Prior to homogenisation and testing, this material was sourced from: Pilbara	Ba	0.066
<u>Material Type</u>	Pulp Iron Ore, 10-20g samples.	Cl	0.016
<u>Usage</u>	This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.	Co	0.002
<u>Preparation and Packaging</u>	This standard was dried in an oven for a minimum of 12 hours at 110C. The dry material is then crushed and homogenised using a ball mill. The material is then stored in a sealed, stable container ready for final packaging.  Materials are statistically sampled from stores, then packaged into heat sealed, air tight, plastic packets ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.	Cr	0.013
<u>Assay Testwork</u>	This standard was tested in a dedicated certification program. 10 x 10g samples were sent to 3 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.	Cu	0.041
		Ni	0.014
		Pb	0.002
		Sn	0.001
		Sr	0.007
		V	0.045
		Zn	<0.001
		Zr	0.028

10A Marsh Close, O'Connor, Western Australia 6163  
Phone : +61 8 9314 2566, Fax : +61 8 9314 3699  
e-mail : pjh@geostats.com.au, jcm@geostats.com.au  
Website <http://www.geostats.com.au>

Geostats Pty Ltd, Certified Iron Ore Reference Material, Product Code: