GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Pulp Iron Ore Reference Material

GIOP-7

Certified Control Values

Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence
					Interval
Fe	%	33.1	0.306	49	+/- 0.086
SiO2	%	44.80	0.224	49	+/- 0.063
Al2O3	%	0.66	0.014	49	+/- 0.004
P	%	0.099	0.0011	39	+/- 0.0003
CaO	%	1.843	0.0241	38	+/- 0.0077
K2O	%	0.079	0.0014	39	+/- 0.0004
MgO	%	1.89	0.0140	40	+/- 0.0044
Na2O	%	0.192	0.0105	39	+/- 0.0033
Mn	%	0.135	0.0038	50	+/- 0.0011
s	%	0.007	0.0009	40	+/- 0.0003
TiO2	%	0.038	0.0023	45	+/- 0.0007
LOI	%	2.75	0.0822	49	+/- 0.023

CRM Details

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: 17th of July 2007

Source Material

Prior to homogenisation and testing, this material was sourced from: Pilbara, Western Australia

Material Type

Pulp Iron Ore, 10g samples.

<u>Usage</u>

This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.

Preparation and Packaging

This reference material was dried in an oven for a minimum of 12 hours at 110C. The dry material is then crushed in a micron mill and homogenised in a vee-blender. 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.

Assay Testwork

This standard was tested in a dedicated certification program. $10 \times 10g$ samples were sent to 4 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.

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