

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

GIOP-25

## Certified Pulp Iron Ore Reference Material

# GIOP-25

## Certified Control Values

### Iron Ore Analyses

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fe	%	61.5	0.09	38	+/- 0.03
Fe (Calc)	%	61.5	0.07	39	+/- 0.02
SiO <sub>2</sub>	%	5.28	0.078	40	+/- 0.024
Al <sub>2</sub> O <sub>3</sub>	%	3.58	0.035	40	+/- 0.011
TiO <sub>2</sub>	%	0.135	0.0050	40	+/- 0.0016
Mn	%	0.023	0.0035	30	+/- 0.0012
CaO	%	<0.05			
P	%	0.023	0.0012	40	+/- 0.0004
S	%	0.017	0.0008	39	+/- 0.0003
MgO	%	0.055	0.0127	29	+/- 0.0046
K <sub>2</sub> O	%	0.028	0.0016	40	+/- 0.0005
LOI <sub>400</sub>	%	1.86	0.034	29	+/- 0.012
LOI <sub>650</sub>	%	2.64	0.039	38	+/- 0.013
LOI	%	2.72	0.061	39	+/- 0.019

### 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:  
13th March 2008

#### Source Material

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

#### Material Type

Pulp Iron Ore, 10g samples.

#### Usage

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 x 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.

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