

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

GPO-01

## Certified Pulp Phosphate Ore Reference Material

# GPO-01

### Certified Control Values

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Al <sub>2</sub> O <sub>3</sub>	%	6.92	0.094	50	+/- 0.03
BaO	%	0.05	0.007	50	+/- 0.01
CaO	%	40.08	0.207	50	+/- 0.06
Fe <sub>2</sub> O <sub>3</sub>	%	3.412	0.017	39	+/- 0.006
K <sub>2</sub> O	%	0.10	0.004	50	+/- 0.01
MgO	%	0.83	0.023	50	+/- 0.01
MnO	%	0.093	0.005	50	+/- 0.002
Na <sub>2</sub> O	%	0.307	0.017	40	+/- 0.006
P <sub>2</sub> O <sub>5</sub>	%	28.66	0.146	50	+/- 0.05
SiO <sub>2</sub>	%	4.381	0.089	50	+/- 0.026
SO <sub>3</sub>	%	1.318	0.012	40	+/- 0.004
TiO <sub>2</sub>	%	0.37	0.006	50	+/- 0.01
LOI1000	%	12.45	0.159	48	+/- 0.05

### 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:  
19th April 2010

#### Source Material

Prior to homogenisation and testing, this material was sourced from:  
tbc

#### Material Type

Pulp Phosphate 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 5 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.

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

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