

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

GPO-17

## Certified Pulp Phosphate Ore Reference Material

# GPO-17

### Certified Control Values

Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
P2O5	%	13.55	0.117	50	+/- 0.034
Al2O3	%	1.83	0.029	50	+/- 0.009
CaO	%	39.14	0.381	49	+/- 0.11
Fe2O3	%	1.287	0.0162	49	+/- 0.0047
MgO	%	5.82	0.032	47	+/- 0.01
SiO2	%	11.62	0.264	50	+/- 0.075
U	ppm	32.4	Indicative only		
BaO	%	0.017	Indicative only		
K2O	%	0.61	0.009	50	+/- 0.003
MnO	%	0.014	0.0047	50	+/- 0.0014
Na2O	%	0.563	0.0117	39	+/- 0.0039
SO3	%	1.369	0.0385	40	+/- 0.0124
TiO2	%	0.09	0.005	50	+/- 0.002
LOI	%	23.47	0.059	50	+/- 0.017

### 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:  
20th July 2012

#### Source Material

Prior to homogenisation and testing, this material was sourced from:  
Sedimentary Phosphate Deposit, Tunisia

#### 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 8 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.

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