

Certified Rare Earth Reference Material - GRE-01

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Ce	ppm	12960	322	40	+/- 110
Dy	ppm	20.86	1.72	50	+/- 0.59
Er	ppm	5.16	2.72	50	+/- 0.93
Eu	ppm	85.1	11.1	50	+/- 3.8
Gd	ppm	163.5	21	50	+/- 7.2
Ho	ppm	2.13	0.19	50	+/- 0.07
La	ppm	8246	179	46	+/- 61
Lu	ppm	0.36	0.11	39	+/- 0.04
Nb	ppm	1669.8	58.8	39	+/- 20.2
Nd	ppm	4278	118	39	+/- 41
Pr	ppm	1273.2	84	50	+/- 28.8
Sm	ppm	422.2	23.2	50	+/- 7.9
Ta	ppm	14.1	0.91	40	+/- 0.31
Tb	ppm	9.98	2.3	50	+/- 0.79
Tm	ppm	0.397	0.059	40	+/- 0.02
Y	ppm	49.81	5.36	50	+/- 1.84
Yb	ppm	2.42	0.47	50	+/- 0.16
Zr	ppm	659.4	97.1	50	+/- 33.3
P	ppm	305.9	62.7	49	+/- 21.5
Sc	ppm	49.84	7.88	50	+/- 2.7
Ti	%	1.921	0.048	40	+/- 0.017

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: 1/04/2011

Source Material

Prior to homogenisation and testing, this material was sourced from
Carbonatite, Tanzania

Usage

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

Preparation and Packaging

This certified reference material was dried in an oven for a minimum of 8 hours at 120C. The dry material was pulverised in an LM2 pulveriser and then homogenised in a vee-blender. The material is then packaged into 10g plastic packets, ready for shipment.

10A Marsh Close, O'Connor
Western Australia 6163
Phone +618 93142566 Fax +618 93143699
Email info@geostats.com.au
Website <http://www.geostats.com.au>

GEOSTATS PTY LTD

**Mining Industry Consultants
Reference Material Manufacture and Sales**

Certification Testwork

This certified reference material was tested in a dedicated certification program. 10 samples were sent to 5 laboratories for analyses. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.