

Certified Rare Earth Reference Material - GRE-02

Certificate of Analysis

Analyte	Units	Average	Standard Deviation	Count	95% Confidence Interval
Ce	ppm	16797	837	50	+/- 287
Dy	ppm	28.56	1.51	40	+/- 0.52
Er	ppm	7.96	5.29	50	+/- 1.81
Eu	ppm	139.9	9.07	40	+/- 3.11
Gd	ppm	262.2	29.6	50	+/- 10.2
Ho	ppm	2.87	0.27	50	+/- 0.09
La	ppm	9786	221	50	+/- 76
Lu	ppm	0.42	0.14	40	+/- 0.05
Nb	ppm	383.6	24.5	40	+/- 8.4
Nd	ppm	7048	456	50	+/- 156
Pr	ppm	1883	117	50	+/- 40
Sm	ppm	769.2	32.2	50	+/- 11
Ta	ppm	5.58	0.49	40	+/- 0.17
Tb	ppm	14.62	4.13	50	+/- 1.42
Tm	ppm	0.527	0.066	40	+/- 0.023
Y	ppm	55.97	4.39	50	+/- 1.5
Yb	ppm	2.96	0.91	50	+/- 0.31
Zr	ppm	136.3	35	50	+/- 12
P	ppm	1995.5	66.9	40	+/- 22.9
Sc	ppm	76.7	13.7	50	+/- 4.7
Ti	%	0.2628	0.0079	37	+/- 0.0027

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.

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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.