GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

GV-12

Certified Reference Material

GV-12

Certified Control Values

Method	Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
4 Acid Digest / ICP	Ag	ppm	0.1			
	Al	%	5.80	0.29	60	+/- 0.08
	As	ppm	3.4	1.3	36	+/- 0.5
	Ba	ppm	217	7	58	+/- 2
	Bi	ppm	0.1	0.0	40	+/- 0.1
	Ca	%	0.83	0.02	59	+/- 0.01
	Cd	ppm	0.2	0.0	40	+/- 0.1
	Ce	ppm	76.1	3.3	58	+/- 0.9
	Co	ppm	54.6	4.0	60	+/- 1.1
	Cr	ppm	189	40	60	+/- 11
	Cu	ppm	153	8	60	+/- 3
	Fe	%	17.0	0.4	49	+/- 0.2
	K	%	0.61	0.03	60	+/- 0.01
	La	ppm	34.7	1.5	60	+/- 0.4
	Li	ppm	13.4	0.7	48	+/- 0.3
	Mg	%	0.82	0.03	60	+/- 0.01
	Mn	ppm	1349	71	60	+/- 19
	Mo	ppm	1.6	0.8	59	+/- 0.3
	Na	%	0.37	0.02	60	+/- 0.01
	Ni	ppm	89	5	59	+/- 2
	P	ppm	760	257	60	+/- 67
	Pb	ppm	11	1	59	+/- 1
	S	ppm	101	8	46	+/- 3
	Sb	ppm	0.2	0.1	40	+/- 0.1
	Sc	ppm	43	3	59	+/- 1
	Sn	ppm	3.7	1.0	60	+/- 0.3
	Sr	ppm	48.7	1.1	56	+/- 0.3
	Te	ppm	0.1			
	Ti	ppm	38491			
	Tl	ppm	0.2	0.0	60	+/- 0.1
	V	ppm	749	199	60	+/- 52
	W	ppm	1.2	0.2	40	+/- 0.1
	Zn	ppm	184	9	60	+/- 3
Fusion / ICP	Ag	ppm	7			
	Al	%	5.69	0.18	58	+/- 0.05
	As	ppm	5			
	Ba	ppm	212	8	60	+/- 2
	Bi	ppm	0.1			
	Ca	%	0.8	0.0	59	+/- 0.1
	Cd	ppm	0.2			
	Ce	ppm	73.0	4.3	60	+/- 1.2
	Co	ppm	53	3	43	+/- 1
	Cr	ppm	217	16	60	+/- 5
	Cu	ppm	162	19	50	+/- 6
	Fe	%	17.1	0.4	60	+/- 0.2
	K	%	0.6	0.0	60	+/- 0.1
	La	ppm	34.0	1.8	60	+/- 0.5
	Li	ppm	16			
	Mg	%	0.85	0.02	60	+/- 0.01
	Mn	ppm	1372	40	60	+/- 11
	Mo	ppm	3	1	30	+/- 1
	Na	%	0.35	0.02	30	+/- 0.01
	Ni	ppm	94	5	41	+/- 2
	P	ppm	972	58	60	+/- 15
	Pb	ppm	11	1	30	+/- 1
	S	%	0.01			
	Sb	ppm	1			
	Sc	ppm	42	4	50	+/- 2
	Sn	ppm	4	1	30	+/- 1
	Sr	ppm	52	4	60	+/- 1
	Te	ppm	1			
	Ti	%	5.33	0.17	60	+/- 0.05
	Tl	ppm	0.1	0.1	30	+/- 0.1
	V	ppm	920	52	50	+/- 15
	W	ppm	2			
	Zn	ppm	187	18	39	+/- 6

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:
August 2026

Source Material
Prior to homogenisation and testing, this material was sourced from:
Sediment hosted, titanite.

Material Type
Pulp Titanium 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 105ºC. The dry material is then pulverised in a bowl and puck 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 20g samples were sent to 6 laboratories for 4 acid digest / ICP and fusion / ICP analyses. Assay distributions were checked and processed statistically, producing monitoring statistics for these standards.

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