GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

GV-11

Certified Reference Material

GV-11

Certified Control Values

Method	Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
4 Acid Digest / ICP	Ag	ppm	0.1			
	Al	%	6.97	0.23	59	+/- 0.07
	As	ppm	4.1	1.3	50	+/- 0.4
	Ba	ppm	314	9	50	+/- 3
	Bi	ppm	0.1	0.0	59	+/- 0.1
	Ca	%	1.65	0.05	60	+/- 0.02
	Cd	ppm	0.2	0.0	40	+/- 0.1
	Ce	ppm	68.3	2.8	58	+/- 0.8
	Co	ppm	46.7	1.3	50	+/- 0.4
	Cr	ppm	165	18	50	+/- 5
	Cu	ppm	142	3	50	+/- 1
	Fe	%	12.9	0.3	50	+/- 0.1
	K	%	1.00	0.03	60	+/- 0.01
	La	ppm	27.0	1.2	60	+/- 0.4
	Li	ppm	15.7	0.9	50	+/- 0.3
	Mg	%	1.40	0.04	60	+/- 0.02
	Mn	ppm	1347	47	60	+/- 13
	Mo	ppm	1.1	0.4	55	+/- 0.1
	Na	%	0.69	0.02	60	+/- 0.01
	Ni	ppm	89	5	58	+/- 2
	P	ppm	826	82	60	+/- 22
	Pb	ppm	14	1	60	+/- 1
	S	ppm	105			
	Sb	ppm	0.2	0.0	35	+/- 0.1
	Sc	ppm	35	2	50	+/- 1
	Sn	ppm	2.7	0.6	60	+/- 0.2
	Sr	ppm	153.9	5.3	60	+/- 1.4
	Te	ppm	0.2			
	Ti	ppm	22307			
	Tl	ppm	0.3	0.0	60	+/- 0.1
	V	ppm	517	26	48	+/- 8
	W	ppm	1.2	0.2	40	+/- 0.1
	Zn	ppm	152	6	60	+/- 2
Fusion / ICP	Ag	ppm	nr			
	Al	%	6.89	0.13	54	+/- 0.04
	As	ppm	5			
	Ba	ppm	311	11	60	+/- 3
	Bi	ppm	0.1			
	Ca	%	1.6	0.0	58	+/- 0.1
	Cd	ppm	0.2			
	Ce	ppm	65.2	3.6	60	+/- 1
	Co	ppm	46	3	41	+/- 2
	Cr	ppm	184	17	59	+/- 5
	Cu	ppm	143	7	50	+/- 2
	Fe	%	12.8	0.2	59	+/- 0.1
	K	%	1.0	0.1	60	+/- 0.1
	La	ppm	26.6	1.2	60	+/- 0.4
	Li	ppm	20	5	30	+/- 2
	Mg	%	1.44	0.03	57	+/- 0.01
	Mn	ppm	1349	37	60	+/- 10
	Mo	ppm	2			
	Na	%	0.64	0.01	30	+/- 0.01
	Ni	ppm	93	5	40	+/- 2
	P	ppm	901	54	50	+/- 16
	Pb	ppm	13			
	S	%	0.01			
	Sb	ppm	1			
	Sc	ppm	34	4	50	+/- 2
	Sn	ppm	3	1	30	+/- 1
	Sr	ppm	160	10	60	+/- 3
	Te	ppm	1			
	Ti	%	2.59	0.09	60	+/- 0.03
	Tl	ppm	0.2			
	V	ppm	540	17	50	+/- 5
	W	ppm	2			
	Zn	ppm	157	19	50	+/- 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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