

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

GTA-03


## Certified Pulp Lithium and Tantalum Reference Material

# GTA-03

### Certified Control Values

Method	Element	Units	Grade	Standard Deviation	No of Analyses	95% Confidence Interval
Fusion XRF	Ta	ppm	173	16	30	+/- 7
	Nb	ppm	60	12	30	+/- 5
	SiO2	%	71.8			Indicative Only
	Fe2O3	%	1.52			Indicative Only
	S	%	0.023			Indicative Only
	As	ppm	14			Indicative Only
	U3O8	ppm	3			Indicative Only
	Sn	ppm	296	21	30	+/- 9
	ThO2	ppm	7			Indicative Only
	WO3	ppm	15.17			Indicative Only
	Sb	ppm	32			Indicative Only
Fusion ICP	Ta	ppm	146	18	40	+/- 6
	Li	ppm	8148			Indicative Only
	Nb	ppm	61	4	30	+/- 2
	SiO2	%	72.0	1.7	100	+/- 0.4
	Fe2O3	%	1.55	0.06	50	+/- 0.02
	S	%	0.018			Indicative Only
	As	ppm	20			Indicative Only
	U3O8	ppm	4	0	40	+/- 1
	Sn	ppm	298	16	92	+/- 4
	ThO2	ppm	5	0	39	+/- 1
	WO3	ppm	10.52	2.34	74	+/- 0.55
	Sb	ppm	<5			
4 Acid ICP	Al	%	8.22	0.62	54	+/- 0.17
	Ca	%	0.19	0.01	50	+/- 0.01
	Fe	%	1.01	0.04	49	+/- 0.02
	K	%	2.95	0.18	60	+/- 0.05
	Li	ppm	7782	175	45	+/- 53
	Mn	ppm	1146	44	58	+/- 12
	Na	%	2.23	0.06	58	+/- 0.02
	Zn	ppm	69	3	60	+/- 1

### CRM Details

<p><b>Control Statistic Details</b> Control values for this material were determined during two dedicated certification programs.</p> <p><b>Certification Date</b> This material was certified with the above values on the 22nd of March 2013 and /or 12th August 2016.</p> <p><b>Source Material</b> Prior to homogenisation and testing, this material was sourced from: Pegmatite ore, Western Australia</p> <p><b>Material Type</b> Pulp Lithium and Tantalum Ore, 10g samples.</p> <p><b>Usage</b> This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.</p> <p><b>Preparation and Packaging</b> This reference material was dried in an oven for a minimum of 8 hours at 110C. 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.</p> <p><b>Assay Testwork</b> This standard was tested in a dedicated certification program. In March 2013, 10 x 20g samples were sent to 5 laboratories for fusion / XRF and fusion / ICP analyses. In August 2016, an additional 10 x 40g samples were sent to 6 laboratories for 4 acid digest / ICP and additional fusion / ICP analyses. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.</p> <p><b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.</p> <p><b>Material Safety</b> This product is not hazardous and non-toxic.</p>	
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