

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G316-1

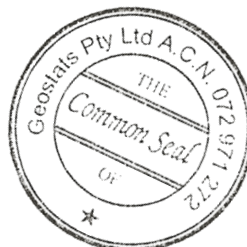
## Certified Control Values

### 50 gram Fire Assay

Gold Grade 0.31 ppm  
Standard Deviation 0.02 ppm  
Confidence Interval +/- 0.003 ppm

### Aqua Regia Digest

Gold Grade 0.31 ppm  
Standard Deviation 0.02 ppm  
Confidence Interval +/- 0.006 ppm



## CRM Details

<b>Control Statistic Details</b>	<b>Neutron Activation Analysis Results (ppm, unless otherwise noted)</b>		<b>Major Elements by Fusion / XRF (%)</b>	
	Control statistics were produced from results accumulated in the April-2016 round robin. A total of 177 fire assay results and 50 results from an aqua regia technique were used to certify this material.	Antimony	1	Fe
<b>Material Description</b> This material is described as an Oxide Tail composites.	Arsenic	17.5	SiO <sub>2</sub>	55.72
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is light gray in colour.	Barium	300	Al <sub>2</sub> O <sub>3</sub>	13.88
<b>Usage</b> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Bromine	<2	TiO <sub>2</sub>	1.735
<b>Preparation and Packaging</b> All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry material is then pulverised to better than 75 micron (nominal mean of 45 micron) using an air classifier. The material is then homogenised and stored in a sealed, stable container ready for final packaging.  Materials are statistically sampled from stores, then packaged into either heat sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.	Cadmium	<10	MnO	0.156
<b>Assay Testwork</b> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by multiple laboratories from around the world. Results are compiled into a comprehensive report detailing statistics for each standard. Assay distributions are checked and processed statistically, producing monitoring statistics for these standards. Materials are tested regularly to ensure stability and homogeneity.	Caesium	1	CaO	7.41
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P	0.091
<b>Material Safety</b> This product is not hazardous and non-toxic.	Cerium	32.2	S	0.09
	Chromium	100	MgO	4.01
	Cobalt	39.9	K <sub>2</sub> O	1.11
	Europium	1.8	NazO	2.993
	Gold (ppb)	330	LOI1000	0.79
	Hafnium	<5		
	Iridium (ppb)	<50		
	Iron (%)	8.2		
	Lanthanum	17		
	Lutetium	0.421		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	45.6		
	Potassium (%)	nr		
	Rubidium	50		
	Samarium	5.3		
	Scandium	27.1		
	Selenium	<10		
	Silver	<0.707		
	Sodium (%)	2.14		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	1		
	Thorium	7.4		
	Tin	<200		
	Tungsten	<5		
	Uranium	4		
	Ytterbium	3		
	Zinc	190		
	Zirconium	<500		

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