

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G311-1

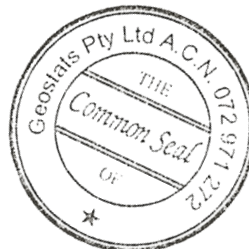
## Certified Control Values

### 50 gram Fire Assay

Gold Grade 0.52 ppm  
Standard Deviation 0.04 ppm  
Confidence Interval +/- 0.006 ppm

### Aqua Regia Digest

Gold Grade 0.51 ppm  
Standard Deviation 0.04 ppm  
Confidence Interval +/- 0.01 ppm



## CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	Control statistics were produced from results accumulated in the April 2011 round robin. A total of 138 fire assay results and 61 results from an aqua regia technique were used to certify this material.	Antimony	1.39	Fe
<u>Material Description</u> This material is described as a Cut - off oxide ore.	Arsenic	0.93	SiO <sub>2</sub>	62.82
	<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale red in colour.	Barium	457	Al <sub>2</sub> O <sub>3</sub>
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.		Bromine	0.559	TiO <sub>2</sub>
	<u>Preparation and Packaging</u> 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	<5	MnO
<u>Assay Testwork</u> 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	2.57	CaO
	<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P
<u>Material Safety</u> This product is not hazardous and non-toxic.		Cerium	44.9	S
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Chromium	87.8	MgO
<u>Major Elements by Fusion / XRF (%)</u>		Cobalt	22.6	K <sub>2</sub> O
		Europium	0.976	NazO
		Gold (ppb)	540	LOI1000
		Hafnium	4.12	
		Iridium (ppb)	<20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.
		Iron (%)	5.93	'nr': Not Reported
		Lanthanum	21.8	
		Lutetium	nr	
		Mercury	nr	
		Molybdenum	8.63	
		Neodymium	nr	
		Nickel	25.5	
		Potassium (%)	nr	
		Rubidium	113	
		Samarium	5.06	
		Scandium	19.3	
		Selenium	<5	
		Silver	3	
		Sodium (%)	2.51	
		Strontium	nr	
		Tantalum	1.44	
		Tellurium	<5	
		Terbium	0.973	
		Thorium	16.4	
		Tin	<100	
		Tungsten	<2	
		Uranium	9.11	
		Ytterbium	2.27	
		Zinc	75.1	
		Zirconium	<200	

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