

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G311-7

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 0.40 ppm  
Standard Deviation 0.03 ppm  
Confidence Interval +/- 0.005 ppm

### Aqua Regia Digest

Gold Grade 0.40 ppm  
Standard Deviation 0.04 ppm  
Confidence Interval +/- 0.011 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 136 fire assay results and 65 results from an aqua regia technique were used to certify this material.	Antimony	0.059	Fe
<u>Material Description</u> This material is described as a Low grade ox. Waste/cut-off.	Arsenic	0.306	SiO <sub>2</sub>	60.58
	Barium	454	Al <sub>2</sub> O <sub>3</sub>	15.29
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is medium light gray in colour.	Bromine	0.776	TiO <sub>2</sub>	1.122
	Cadmium	<5	MnO	0.11
<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.	Caesium	2.74	CaO	5.79
	Calcium (%)	nr	P	0.058
<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.	Cerium	40.7	S	0.034
	Chromium	104	MgO	3.05
<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.	Cobalt	24.4	K <sub>2</sub> O	2.05
	Europium	1.26	NazO	3.564
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	425	LOI1000	0.51
	Hafnium	3.99	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
<u>Material Safety</u> This product is not hazardous and non-toxic.	Iridium (ppb)	<20	nr: Not Reported	
	Iron (%)	5.24		
	Lanthanum	21.3		
	Lutetium	nr		
	Mercury	nr		
	Molybdenum	19.2		
	Neodymium	nr		
	Nickel	26.3		
	Potassium (%)	nr		
	Rubidium	109		
	Samarium	4.95		
	Scandium	20.3		
	Selenium	<5		
	Silver	6.32		
	Sodium (%)	2.6		
	Strontium	nr		
	Tantalum	1.53		
	Tellurium	<5		
	Terbium	0.983		
	Thorium	15.1		
	Tin	<100		
	Tungsten	<2		
	Uranium	7.13		
	Ytterbium	2.45		
	Zinc	88.4		
	Zirconium	<200		

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