

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G313-8

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 2.43 ppm  
Standard Deviation 0.11 ppm  
Confidence Interval +/- 0.017 ppm

### Aqua Regia Digest

Gold Grade 2.41 ppm  
Standard Deviation 0.14 ppm  
Confidence Interval +/- 0.032 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-2013 round robin. A total of 164 fire assay results and 76 results from an aqua regia technique were used to certify this material.	Antimony	0.805	Fe
<u>Material Description</u> This material is described as a Composite oxide / sulfide materials.	Arsenic	4.87	SiO <sub>2</sub>	59.5
	Barium	485	Al <sub>2</sub> O <sub>3</sub>	18.2
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale red in colour.	Bromine	1.64	TiO <sub>2</sub>	0.8
	Cadmium	<1.77	MnO	0.07
<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	2.47	CaO	2.54
	Calcium (%)	nr	P	0.032
<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	45.9	S	0.033
	Chromium	76.2	MgO	1.54
<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	5.28	K <sub>2</sub> O	2.5
	Europium	0.656	Na <sub>2</sub> O	2.655
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	2770	LOI1000	3.93
	Hafnium	6.49	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)	<8.01	nr: Not Reported	
	Iron (%)	6.13		
	Lanthanum	24.4		
	Lutetium	0.305		
	Mercury	nr		
	Molybdenum	14.1		
	Neodymium	nr		
	Nickel	10.1		
	Potassium (%)	nr		
	Rubidium	125		
	Samarium	3.62		
	Scandium	11.2		
	Selenium	<2.87		
	Silver	3.02		
	Sodium (%)	2.08		
	Strontium	nr		
	Tantalum	1.84		
	Tellurium	<5.47		
	Terbium	0.677		
	Thorium	35		
	Tin	<41.1		
	Tungsten	<1.27		
	Uranium	10.7		
	Ytterbium	1.32		
	Zinc	45.8		
	Zirconium	220		

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