

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G912-1

### Certified Control Values

#### 50 gram Fire Assay

Gold Grade 7.29 ppm  
Standard Deviation 0.30 ppm  
Confidence Interval +/- 0.047 ppm

#### Aqua Regia Digest

Gold Grade 7.33 ppm  
Standard Deviation 0.45 ppm  
Confidence Interval +/- 0.106 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 October-2012 round robin. A total of 159 fire assay results and 73 results from an aqua regia technique were used to certify this material.	Antimony	<0.2	Fe
<b>Material Description</b> This material is described as a Low Sulphide ore ex Eastern Goldfields.	Arsenic	<0.5	SiO <sub>2</sub>	63.47
	Barium	480	Al <sub>2</sub> O <sub>3</sub>	13.73
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is light gray in colour.	Bromine	<0.5	TiO <sub>2</sub>	1.103
	Cadmium	<5	MnO	0.11
<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.	Caesium	2.5	CaO	5.25
	Calcium (%)	nr	P	0.059
<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.	Cerium	42	S	0.042
	Chromium	85	MgO	2.76
<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.	Cobalt	22	K <sub>2</sub> O	2.3
	Europium	1.4	Na <sub>2</sub> O	3.185
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	7800	LOI1000	0.43
	Hafnium	4	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.  'nr': Not Reported	
Iridium (ppb)	<10			
Iron (%)	5.23			
Lanthanum	23			
Lutetium	0.4			
Mercury	nr			
Molybdenum	15			
Neodymium	nr			
Nickel	20			
Potassium (%)	nr			
<b>Material Safety</b> This product is not hazardous and non-toxic.	Rubidium	120		
	Samarium	4.8		
	Scandium	18.5		
	Selenium	<2		
	Silver	<2		
	Sodium (%)	2.36		
	Strontium	nr		
	Tantalum	1.6		
	Tellurium	<10		
	Terbium	1		
	Thorium	16.5		
	Tin	<200		
	Tungsten	<2		
	Uranium	8.5		
	Ytterbium	2.8		
	Zinc	80		
	Zirconium	<500		

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