

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G912-6

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 4.08 ppm  
Standard Deviation 0.17 ppm  
Confidence Interval +/- 0.027 ppm

### Aqua Regia Digest

Gold Grade 4.05 ppm  
Standard Deviation 0.26 ppm  
Confidence Interval +/- 0.062 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 October-2012 round robin. A total of 158 fire assay results and 71 results from an aqua regia technique were used to certify this material.	Antimony 1.2	Fe	9.16
<u>Material Description</u> This material is described as a ROM oxide material.	Arsenic 9.7	SiO <sub>2</sub>	47.33
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale reddish brown in colour.	Barium 220	Al <sub>2</sub> O <sub>3</sub>	22.23
<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 2.6	TiO <sub>2</sub>	1.22
<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	0.08
<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 1.3	CaO	2.66
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%) nr	P	0.037
<u>Material Safety</u> This product is not hazardous and non-toxic.	Cerium 33	S	0.047
	Chromium 117	MgO	1.74
	Cobalt 13	K <sub>2</sub> O	1.68
	Europium 0.8	NazO	1.791
	Gold (ppb) 4200	LOI1000	7.7
	Hafnium 8.2	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iridium (ppb) <10	'nr': Not Reported	
	Iron (%) 9.25		
	Lanthanum 14		
	Lutetium 0.3		
	Mercury nr		
	Molybdenum 20		
	Neodymium nr		
	Nickel 18		
	Potassium (%) nr		
	Rubidium 80		
	Samarium 3		
	Scandium 15		
	Selenium <2		
	Silver 3		
	Sodium (%) 1.32		
	Strontium nr		
	Tantalum 1.8		
	Tellurium <10		
	Terbium 0.6		
	Thorium 43.8		
	Tin <200		
	Tungsten <2		
	Uranium 8		
	Ytterbium 2.2		
	Zinc 50		
	Zirconium <500		

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