

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G997-9

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 5.16 ppm  
Standard Deviation 0.32 ppm  
Confidence Interval +/- 0.07 ppm

### Aqua Regia Digest

Gold Grade 5.18 ppm  
Standard Deviation 0.36 ppm  
Confidence Interval +/- 0.088 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-1997 round robin. A total of 83 fire assay results and 68 results from an aqua regia technique were used to certify this material.	Antimony	1.13	Fe
<u>Material Description</u> This material is described as a Fresh basaltic / Quartz ore.	Arsenic	91.6	SiO <sub>2</sub>	nr
	Barium	758	Al <sub>2</sub> O <sub>3</sub>	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale red in colour.	Bromine	1.34	TiO <sub>2</sub>	nr
	Cadmium	nr	MnO	nr
<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	14.6	CaO	nr
	Calcium (%)	<1	P	nr
<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	84.9	S	nr
	Chromium	443	MgO	nr
<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	36.7	K <sub>2</sub> O	nr
	Europium	0.71	Na <sub>2</sub> O	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	5240	LOI1000	nr
	Hafnium	10.5	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)	<20			
Iron (%)	3.02			
Lanthanum	40.9			
Lutetium	0.25			
Mercury	nr			
Molybdenum	<5			
Neodymium	nr			
Nickel	nr			
Potassium (%)	3.18			
<u>Material Safety</u> This product is not hazardous and non-toxic.	Rubidium	482		
	Samarium	5.29		
	Scandium	9.1		
	Selenium	<5		
	Silver	<5		
	Sodium (%)	1.51		
	Strontium	nr		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	nr		
	Thorium	11.9		
	Tin	nr		
	Tungsten	8.74		
	Uranium	<2		
	Ytterbium	1.66		
	Zinc	<100		
	Zirconium	<500		

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