

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G917-9

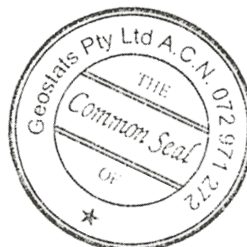
## Certified Control Values

### 50 gram Fire Assay

Gold Grade 12.14 ppm  
Standard Deviation 0.40 ppm  
Confidence Interval +/- 0.061 ppm

### Aqua Regia Digest

Gold Grade 12.05 ppm  
Standard Deviation 0.61 ppm  
Confidence Interval +/- 0.17 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-2017 round robin. A total of 170 fire assay results and 53 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 Gold ore High Grade.	Arsenic	<0.5	SiO <sub>2</sub>	63.9
<b>Colour Designation (ISCC-NBS, SP440)</b> This material is light gray in colour.	Barium	381	Al <sub>2</sub> O <sub>3</sub>	13.89
<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.	Bromine	<2	TiO <sub>2</sub>	1.08
<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.	Cadmium	<10	MnO	0.098
<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.	Caesium	6	CaO	5.13
<b>Stability</b> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P	0.054
<b>Material Safety</b> This product is not hazardous and non-toxic.	Cerium	31	S	0.037
	Chromium	105	MgO	3.33
	Cobalt	23	K <sub>2</sub> O	2.38
	Europium	1.2	NazO	2.61
	Gold (ppb)	13000	LOI1000	0.42
	Hafnium	<5		
	Iridium (ppb)	<50		
	Iron (%)	5.1		
	Lanthanum	17		
	Lutetium	0.4		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	24		
	Potassium (%)	nr		
	Rubidium	120		
	Samarium	4.3		
	Scandium	18.6		
	Selenium	<10		
	Silver	13		
	Sodium (%)	2.01		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	1		
	Thorium	12.3		
	Tin	<200		
	Tungsten	<5		
	Uranium	7		
	Ytterbium	3		
	Zinc	<200		
	Zirconium	<500		

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