

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G305-9

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 4.28 ppm  
Standard Deviation 0.18 ppm  
Confidence Interval +/- 0.04 ppm

### Aqua Regia Digest

Gold Grade 4.14 ppm  
Standard Deviation 0.26 ppm  
Confidence Interval +/- 0.087 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-2005 round robin. A total of 82 fire assay results and 37 results from an aqua regia technique were used to certify this material.	Antimony	5.99	Fe
<u>Material Description</u> This material is described as a Metallurgical Composite sulphide.	Arsenic	272	SiO <sub>2</sub>	nr
	Barium	200	Al <sub>2</sub> O <sub>3</sub>	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is yellowish gray in colour.	Bromine	3.49	TiO <sub>2</sub>	nr
	Cadmium	<6.1	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	5.92	CaO	nr
	Calcium (%)	nr	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	34.5	S	nr
	Chromium	200	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	82.2	K <sub>2</sub> O	nr
	Europium	1.35	NazO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	4500	LOI1000	nr
	Hafnium	6.35		
<u>Material Safety</u> This product is not hazardous and non-toxic.	Iridium (ppb)	9	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	10.2	'nr': Not Reported	
	Lanthanum	16.2		
	Lutetium	0.393		
	Mercury	1		
	Molybdenum	6		
	Neodymium	2.5		
	Nickel	530		
	Potassium (%)	<0.16		
	Rubidium	183		
	Samarium	4.2		
	Scandium	23.4		
	Selenium	1.8		
	Silver	14.8		
	Sodium (%)	1.51		
	Strontium	nr		
	Tantalum	6.39		
	Tellurium	<4.5		
	Terbium	0.63		
	Thorium	3.41		
	Tin	<79		
	Tungsten	12		
	Uranium	1.3		
	Ytterbium	2.35		
	Zinc	1220		
	Zirconium	300		

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