

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G312-1

Certified Control Values

50 gram Fire Assay

Gold Grade 0.88 ppm
Standard Deviation 0.09 ppm
Confidence Interval +/- 0.014 ppm

Aqua Regia Digest

Gold Grade 0.87 ppm
Standard Deviation 0.11 ppm
Confidence Interval +/- 0.027 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-2012 round robin. A total of 158 fire assay results and 67 results from an aqua regia technique were used to certify this material.	Antimony 2.28	Fe	5.48
<u>Material Description</u> This material is described as a Cu / Gold Sulphide ore.	Arsenic 9.46	SiO ₂	60.63
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is light gray in colour.	Barium 470	Al ₂ O ₃	14.29
<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 0.854	TiO ₂	0.937
<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 <10	MnO	0.11
<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 2.5	CaO	5.37
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%) nr	P	0.049
<u>Material Safety</u> This product is not hazardous and non-toxic.	Cerium 40	S	0.736
	Chromium 100	MgO	3.03
	Cobalt 33.6	K ₂ O	2.27
	Europium 1.1	NazO	3.491
	Gold (ppb) 760	LOI1000	0.76
	Hafnium 3.5	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 (%) 5.4		
	Lanthanum 23		
	Lutetium 0.4		
	Mercury nr		
	Molybdenum 28		
	Neodymium nr		
	Nickel 30		
	Potassium (%) nr		
	Rubidium 110		
	Samarium 4.1		
	Scandium 18.4		
	Selenium <5		
	Silver 4		
	Sodium (%) 2.56		
	Strontium nr		
	Tantalum 1.1		
	Tellurium <10		
	Terbium 0.5		
	Thorium 14.4		
	Tin <100		
	Tungsten <1		
	Uranium 8		
	Ytterbium 2.41		
	Zinc 130		
	Zirconium <200		

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