

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G312-4

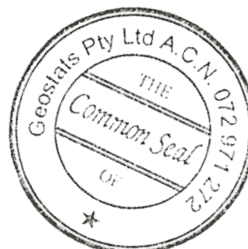
Certified Control Values

50 gram Fire Assay

Gold Grade 5.30 ppm
Standard Deviation 0.22 ppm
Confidence Interval +/- 0.034 ppm

Aqua Regia Digest

Gold Grade 4.98 ppm
Standard Deviation 0.34 ppm
Confidence Interval +/- 0.081 ppm



CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm, unless otherwise noted)		Major Elements by Fusion / XRF (%)	
	Control statistics were produced from results accumulated in the April-2012 round robin. A total of 155 fire assay results and 69 results from an aqua regia technique were used to certify this material.	Antimony	1.5	Fe
Material Description This material is described as a Cu / Gold Sulphide ore.	Arsenic	15.4	SiO ₂	59.33
	Barium	420	Al ₂ O ₃	14.27
Colour Designation (ISCC-NBS, SP440) This material is light gray in colour.	Bromine	0.8	TiO ₂	1.182
	Cadmium	<10	MnO	0.12
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	1.9	CaO	5.65
	Calcium (%)	nr	P	0.059
Preparation and Packaging 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	41	S	0.671
	Chromium	90	MgO	3.06
Assay Testwork 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	41.4	K ₂ O	2.03
	Europium	1.4	Na ₂ O	3.383
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	5300	LOI1000	0.79
	Hafnium	5.8	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
Material Safety This product is not hazardous and non-toxic.	Iridium (ppb)	<10	nr: Not Reported	
	Iron (%)	6.2		
	Lanthanum	24		
	Lutetium	0.4		
	Mercury	nr		
	Molybdenum	35		
	Neodymium	nr		
	Nickel	350		
	Potassium (%)	nr		
	Rubidium	110		
	Samarium	4.7		
	Scandium	20.2		
	Selenium	<5		
	Silver	7		
	Sodium (%)	2.45		
	Strontium	nr		
	Tantalum	1		
	Tellurium	<10		
	Terbium	0.7		
	Thorium	13.1		
	Tin	<100		
	Tungsten	4		
	Uranium	7.6		
	Ytterbium	2.71		
	Zinc	1190		
	Zirconium	200		

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