

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G312-9

Certified Control Values

50 gram Fire Assay

Gold Grade 5.84 ppm
Standard Deviation 0.25 ppm
Confidence Interval +/- 0.038 ppm

Aqua Regia Digest

Gold Grade 5.69 ppm
Standard Deviation 0.35 ppm
Confidence Interval +/- 0.084 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 162 fire assay results and 69 results from an aqua regia technique were used to certify this material.	Antimony	1.9	Fe
Material Description This material is described as a Composite Ores Eastern Goldfields.	Arsenic	10	SiO ₂	49.93
	Barium	440	Al ₂ O ₃	22.24
Colour Designation (ISCC-NBS, SP440) This material is pale reddish brown in colour.	Bromine	2.29	TiO ₂	0.842
	Cadmium	<10	MnO	0.06
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	3	CaO	1.7
	Calcium (%)	nr	P	0.019
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	43	S	0.039
	Chromium	100	MgO	0.93
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	7.4	K ₂ O	2.23
	Europium	0.5	Na ₂ O	2.37
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	6100	LOI1000	7.44
	Hafnium	7.7	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 (%)	8.2		
	Lanthanum	22		
	Lutetium	0.2		
	Mercury	nr		
	Molybdenum	27		
	Neodymium	nr		
	Nickel	<20		
	Potassium (%)	nr		
	Rubidium	120		
	Samarium	2.6		
	Scandium	10.7		
	Selenium	<5		
	Silver	2		
	Sodium (%)	1.72		
	Strontium	nr		
	Tantalum	1.9		
	Tellurium	<10		
	Terbium	<0.5		
	Thorium	48.9		
	Tin	<100		
	Tungsten	4		
	Uranium	10.9		
	Ytterbium	1.31		
	Zinc	33		
	Zirconium	200		

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