

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G910-1

Certified Control Values

50 gram Fire Assay

Gold Grade 1.43 ppm
Standard Deviation 0.06 ppm
Confidence Interval +/- 0.007 ppm

Aqua Regia Digest

Gold Grade 1.40 ppm
Standard Deviation 0.11 ppm
Confidence Interval +/- 0.019 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 October-2010 & April-2011 round robins. A total of 265 fire assay results and 132 results from an aqua regia technique were used to certify this material.	Antimony	<0.1	Fe
Material Description This material is described as a Minor sulphide ore ex Eastern Goldfields.	Arsenic	0.235	SiO ₂	63.79
	Barium	534.5	Al ₂ O ₃	15.025
Colour Designation (ISCC-NBS, SP440) This material is light gray in colour.	Bromine	0.639	TiO ₂	0.869
	Cadmium	<5	MnO	0.09
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	3.375	CaO	4.73
	Calcium (%)	nr	P	0.049
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	40.35	S	0.023
	Chromium	79.05	MgO	2.37
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	17.45	K ₂ O	2.64
	Europium	1.065	NazO	3.728
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	1495	LOI1000	0.39
	Hafnium	4	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 (%)	4.02		
	Lanthanum	23.55		
	Lutetium	0.416		
	Mercury	nr		
	Molybdenum	14.65		
	Neodymium	nr		
	Nickel	20.85		
	Potassium (%)	nr		
	Rubidium	137.5		
	Samarium	4.335		
	Scandium	14.3		
	Selenium	<5		
	Silver	11.65		
	Sodium (%)	2.645		
	Strontium	nr		
	Tantalum	1.765		
	Tellurium	<5		
	Terbium	0.823		
	Thorium	18.3		
	Tin	<100		
	Tungsten	<2		
	Uranium	9.155		
	Ytterbium	2.265		
	Zinc	80.95		
	Zirconium	<200		

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