

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G313-10

Certified Control Values

50 gram Fire Assay

Gold Grade 46.27 ppm
Standard Deviation 1.99 ppm
Confidence Interval +/- 0.308 ppm

Aqua Regia Digest

Gold Grade 45.86 ppm
Standard Deviation 2.99 ppm
Confidence Interval +/- 0.703 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-2013 round robin. A total of 163 fire assay results and 73 results from an aqua regia technique were used to certify this material.	Antimony	1.59	Fe
Material Description This material is described as a Composite high grade ore.	Arsenic	11.8	SiO ₂	47.48
	Barium	294	Al ₂ O ₃	24.8
Colour Designation (ISCC-NBS, SP440) This material is pale reddish brown in colour.	Bromine	3.47	TiO ₂	0.885
	Cadmium	<3.49	MnO	0.04
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	1.41	CaO	0.64
	Calcium (%)	nr	P	0.015
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	40.2	S	0.037
	Chromium	123	MgO	0.43
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	<1.85	K ₂ O	2.12
	Europium	<0.79	NazO	1.625
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	51700	LOI1000	9.66
	Hafnium	11.1	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)	<20.1	'nr': Not Reported	
	Iron (%)	10.2		
	Lanthanum	17.4		
	Lutetium	0.326		
	Mercury	nr		
	Molybdenum	47.8		
	Neodymium	nr		
	Nickel	11.9		
	Potassium (%)	nr		
	Rubidium	104		
	Samarium	1.99		
	Scandium	9.92		
	Selenium	<6.15		
	Silver	15.1		
	Sodium (%)	1.48		
	Strontium	nr		
	Tantalum	2.62		
	Tellurium	<9.87		
	Terbium	0.483		
	Thorium	58.4		
	Tin	<259		
	Tungsten	<2.03		
	Uranium	12.3		
	Ytterbium	<2.39		
	Zinc	<25		
	Zirconium	<264		

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