

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G901-11

Certified Control Values

50 gram Fire Assay

Gold Grade 1.34 ppm
Standard Deviation 0.06 ppm
Confidence Interval +/- 0.014 ppm

Aqua Regia Digest

Gold Grade 1.34 ppm
Standard Deviation 0.11 ppm
Confidence Interval +/- 0.022 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-2001 & April-2002 round robins. A total of 75 fire assay results and 108 results from an aqua regia technique were used to certify this material.	Antimony	6.32	Fe
Material Description This material is described as an Oxide Gold ore - siliceous.	Arsenic	14.55	SiO ₂	nr
	Barium	<100	Al ₂ O ₃	nr
Colour Designation (ISCC-NBS, SP440) This material is pale reddish brown in colour.	Bromine	<1	TiO ₂	nr
	Cadmium	nr	MnO	nr
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	39.5	CaO	nr
	Calcium (%)	<1	P	nr
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	2.29	S	nr
	Chromium	19.45	MgO	nr
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	K ₂ O	nr
	Europium	<0.5	Na ₂ O	nr
Stability This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	1380	LOI1000	nr
	Hafnium	11.55	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes. 'nr': Not Reported	
Iridium (ppb)	<20			
Material Safety This product is not hazardous and non-toxic.	Iron (%)	2.935		
	Lanthanum	1.025		
	Lutetium	<0.2		
	Mercury	nr		
	Molybdenum	<5		
	Neodymium	nr		
	Nickel	nr		
	Potassium (%)	4.83		
	Rubidium	1335		
	Samarium	0.265		
	Scandium	1.255		
	Selenium	<5		
	Silver	<5		
	Sodium (%)	1.305		
	Strontium	nr		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	nr		
	Thorium	0.825		
	Tin	nr		
	Tungsten	2.03		
	Uranium	<2		
	Ytterbium	<0.5		
	Zinc	<100		
	Zirconium	539		

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