

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G317-3

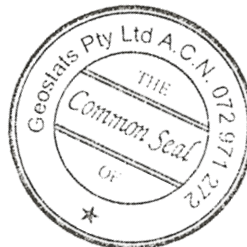
Certified Control Values

50 gram Fire Assay

Gold Grade 16.81 ppm
Standard Deviation 0.59 ppm
Confidence Interval +/- 0.091 ppm

Aqua Regia Digest

Gold Grade 16.63 ppm
Standard Deviation 0.78 ppm
Confidence Interval +/- 0.204 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-2017 round robin. A total of 162 fire assay results and 60 results from an aqua regia technique were used to certify this material.	Antimony	2.5	Fe
Material Description This material is described as a Composite high grade ore.	Arsenic	8.6	SiO ₂	62.17
Colour Designation (ISCC-NBS, SP440) This material is light gray in colour.	Barium	249	Al ₂ O ₃	13.92
Usage This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Bromine	<2	TiO ₂	1.22
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.	Cadmium	<10	MnO	0.108
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.	Caesium	2	CaO	5.8
Stability This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P	0.061
Material Safety This product is not hazardous and non-toxic.	Cerium	<10	S	0.074
	Chromium	144	MgO	3.13
	Cobalt	22	K ₂ O	2.05
	Europium	<2.6	NazO	3.19
	Gold (ppb)	18100	LOI1000	0.35
	Hafnium	<5		
	Iridium (ppb)	<50		
	Iron (%)	5.8		
	Lanthanum	18		
	Lutetium	0.5		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	36		
	Potassium (%)	nr		
	Rubidium	96		
	Samarium	4.2		
	Scandium	19.5		
	Selenium	<10		
	Silver	8		
	Sodium (%)	2.34		
	Strontium	nr		
	Tantalum	<2		
	Tellurium	<20		
	Terbium	<1		
	Thorium	10.3		
	Tin	<200		
	Tungsten	<5		
	Uranium	9		
	Ytterbium	<1.8		
	Zinc	258		
	Zirconium	<500		

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