

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G399-1

Certified Control Values

50 gram Fire Assay

Gold Grade 0.22 ppm
Standard Deviation 0.02 ppm
Confidence Interval +/- 0.004 ppm

Aqua Regia Digest

Gold Grade 0.22 ppm
Standard Deviation 0.03 ppm
Confidence Interval +/- 0.007 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-1999 round robin. A total of 96 fire assay results and 65 results from an aqua regia technique were used to certify this material.	Antimony	3.66	Fe
Material Description This material is described as an Eastern Goldfields oxide waste.	Arsenic	1.4	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	33.33	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	S	nr
	Chromium	13.7	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)	219.3	LOI1000	nr
	Hafnium	1.06	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			
Iron (%)	1.72			
Lanthanum	0.53			
Lutetium	<0.2			
Mercury	nr			
Molybdenum	<5			
Neodymium	nr			
Nickel	nr			
Potassium (%)	4.58			
Material Safety This product is not hazardous and non-toxic.	Rubidium	1340.3		
	Samarium	<0.2		
	Scandium	0.67		
	Selenium	<5		
	Silver	<5		
	Sodium (%)	1.307		
	Strontium	nr		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	nr		
	Thorium	<0.5		
	Tin	nr		
	Tungsten	<2		
	Uranium	<2		
	Ytterbium	<0.5		
	Zinc	<100		
	Zirconium	<500		

20 Hines Road, O'Connor, Western Australia 6163

Phone : +61 8 9314 2566, Fax : +61 8 9314 3699

e-mail : pjh@geostats.com.au, srr@geostats.com.au

Website <http://www.geostats.com.au>

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