

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G397-3

Certified Control Values

50 gram Fire Assay

Gold Grade 1.72 ppm
Standard Deviation 0.11 ppm
Confidence Interval +/- 0.016 ppm

Aqua Regia Digest

Gold Grade 1.69 ppm
Standard Deviation 0.11 ppm
Confidence Interval +/- 0.023 ppm



CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>		<u>Major Elements by Fusion / XRF (%)</u>	
	Control statistics were produced from results accumulated in the April-1997 & October-2008 round robins. A total of 180 fire assay results and 98 results from an aqua regia technique were used to certify this material.	Antimony	0.985	Fe
<u>Material Description</u> This material is described as a Laterite / Kaolin ores.	Arsenic	119.5	SiO ₂	nr
	Barium	201.5	Al ₂ O ₃	nr
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is grayish orange in colour.	Bromine	1.735	TiO ₂	nr
	Cadmium	<5	MnO	nr
<u>Usage</u> This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.	Caesium	5.58	CaO	nr
	Calcium (%)	nr	P	nr
<u>Preparation and Packaging</u> 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	46.1	S	nr
	Chromium	168.5	MgO	nr
<u>Assay Testwork</u> 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	17.3	K ₂ O	nr
	Europium	1.09	NazO	nr
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Gold (ppb)	1655	LOI1000	nr
	Hafnium	3.915		
<u>Material Safety</u> This product is not hazardous and non-toxic.	Iridium (ppb)	<20	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.	
	Iron (%)	4.045	'nr': Not Reported	
	Lanthanum	21.35		
	Lutetium	0.215		
	Mercury	nr		
	Molybdenum	12.25		
	Neodymium	nr		
	Nickel	81		
	Potassium (%)	0.79		
	Rubidium	137.5		
	Samarium	4.325		
	Scandium	11.7		
	Selenium	<5		
	Silver	<2		
	Sodium (%)	0.261		
	Strontium	nr		
	Tantalum	<0.5		
	Tellurium	<10		
	Terbium	<0.5		
	Thorium	9.03		
	Tin	<100		
	Tungsten	36.95		
	Uranium	1.9		
	Ytterbium	1.7		
	Zinc	<100		
	Zirconium	<200		

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