

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G998-1

Certified Control Values

50 gram Fire Assay

Gold Grade 2.95 ppm
Standard Deviation 0.12 ppm
Confidence Interval +/- 0.025 ppm

Aqua Regia Digest

Gold Grade 2.93 ppm
Standard Deviation 0.24 ppm
Confidence Interval +/- 0.06 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 October-1998 round robin. A total of 91 fire assay results and 64 results from an aqua regia technique were used to certify this material.	Antimony	107	Fe	nr
	Arsenic	31.6	SiO ₂	nr
	Barium	<100	Al ₂ O ₃	nr
	Bromine	<1	TiO ₂	nr
	Cadmium	nr	MnO	nr
	Caesium	7.04	CaO	nr
	Calcium (%)	<1	P	nr
	Cerium	23.3	S	nr
	Chromium	67	MgO	nr
	Cobalt	14.5	K ₂ O	nr
	Europium	0.66	Na ₂ O	nr
	Gold (ppb)	3100	LOI1000	nr
	Hafnium	4.27		
	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 (%)	50.2	nr: Not Reported	
	Lanthanum	4.96		
	Lutetium	<0.2		
	Mercury	nr		
	Molybdenum	<10		
	Neodymium	nr		
	Nickel	nr		
	Potassium (%)	0.98		
	Rubidium	260		
	Samarium	1.7		
	Scandium	14.4		
	Selenium	<5		
	Silver	<5		
	Sodium (%)	0.323		
	Strontium	nr		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	nr		
	Thorium	<0.5		
	Tin	nr		
	Tungsten	27.2		
	Uranium	7.4		
	Ytterbium	0.55		
	Zinc	<100		
	Zirconium	<500		
<u>Material Description</u> This material is described as an Oxide with high iron content.				
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is moderate red in colour.				
<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.				
<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.				
<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.				
<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.				
<u>Material Safety</u> This product is not hazardous and non-toxic.				

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