

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G999-10

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 0.05 ppm  
Standard Deviation 0.02 ppm  
Confidence Interval +/- 0.003 ppm

### Aqua Regia Digest

Gold Grade 0.05 ppm  
Standard Deviation 0.03 ppm  
Confidence Interval +/- 0.006 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-1999 & April-2003 round robins. A total of 164 fire assay results and 95 results from an aqua regia technique were used to certify this material.	Antimony	5.275	Fe	nr
	Arsenic	2.725	SiO <sub>2</sub>	nr
	Barium	208	Al <sub>2</sub> O <sub>3</sub>	nr
	Bromine	2.69	TiO <sub>2</sub>	nr
	Cadmium	nr	MnO	nr
	Caesium	1.395	CaO	nr
	Calcium (%)	<1	P	nr
	Cerium	70.75	S	nr
	Chromium	62.5	MgO	nr
	Cobalt	18.55	K <sub>2</sub> O	nr
	Europium	0.65	Na <sub>2</sub> O	nr
	Gold (ppb)	43.75	LOI1000	nr
	Hafnium	22.6		
	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 (%)	3.22	'nr': Not Reported	
	Lanthanum	45.05		
	Lutetium	0.335		
	Mercury	nr		
	Molybdenum	5		
	Neodymium	nr		
	Nickel	nr		
	Potassium (%)	2.285		
	Rubidium	158		
	Samarium	4.825		
	Scandium	7.08		
	Selenium	<5		
	Silver	<5		
	Sodium (%)	0.623		
	Strontium	nr		
	Tantalum	2.2		
	Tellurium	<5		
	Terbium	nr		
	Thorium	17.6		
	Tin	nr		
	Tungsten	3.23		
	Uranium	5.415		
	Ytterbium	2.35		
	Zinc	<100		
	Zirconium	890.5		
<u>Material Description</u> This material is described as a Low grade Oxide, Eastern Goldfields.				
<u>Colour Designation (ISCC-NBS, SP440)</u> This material is moderate orange pink 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.				

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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