GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G02

Certified Control Values

50 gram Fire Assay

Gold Grade	1.20 ppm
Standard Deviation	0.08 ppm
Confidence Interval	+/- 0.021 ppm

Aqua Regia Digest

Gold Grade	1.20 ppm
Standard Deviation	0.07 ppm
Confidence Interval	+/- 0.019 ppm

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the April-1995 round robin. A total of 59 fire assay results and 55 results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a SW Australia Gold field oxide ore.

Colour Designation (ISCC-NBS, SP440)

This material is very pale orange in colour.

Usage

This product is for use in the mining industry as a reference material for monitoring and testing the accuracy of laboratory assaying.

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.

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.

Stability

This product remains stable in its original packaging, away from direct sunlight.

Material Safety

This product is not hazardous and non-toxic.

Neutron Activation Analysis Results (ppm, unless otherwise noted)		Major Elements by Fusion / XRF (%)	
Antimony	nr	Fe	nr
Arsenic	nr	SiO_2	nr
Barium	nr	Al_2O_3	nr
Bromine	nr	TiO_2	nr
Cadmium	nr	MnO	nr
Caesium	nr	CaO	nr
Calcium (%)	nr	P	nr
Cerium	nr	S	nr
Chromium	nr	MgO	nr
Cobalt	nr	K_2O	nr
Europium	nr	Na_2O	nr
Gold (ppb)	nr	LOI1000	nr
Hafnium	nr		
Iridium (ppb)	nr		
Iron (%)	nr		
Lanthanum	nr		
Lutetium	nr		
Mercury	nr		
Molybdenum	nr		
Neodymium	nr		
Nickel	nr		
Potassium (%)	nr		
Rubidium	nr		
Samarium	nr		
Scandium	nr		
Selenium	nr		
Silver	nr		
Sodium (%)	nr		
Strontium	nr		
Tantalum	nr		
Tellurium	nr		
Terbium	nr		
Thorium	nr		
Tin	nr		
Tungsten	nr		
Uranium	nr		
Ytterbium	nr		
Zinc	nr		
Zirconium	nr		

Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes.

'nr': Not Reported

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G02

Geostats Pty Ltd, Certified Gold Reference Material, Product Code: