

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

## Certified Gold Reference Material Product Code

# G322-9

## Certified Control Values

### 50 gram Fire Assay

Gold Grade 4.36 ppm  
Standard Deviation 0.19 ppm  
Confidence Interval +/- 0.024 ppm

### Aqua Regia Digest

Gold Grade 4.26 ppm  
Standard Deviation 0.21 ppm  
Confidence Interval +/- 0.039 ppm



## CRM Details

### Control Statistic Details

Control statistics were produced from results accumulated in the April-2022, October-1998 round robins. A total of 262 fire assay results and 116 results from an aqua regia technique were used to certify this material.

### Material Description

This material is described as a Basalt ore ex Eastern Goldfields, Minor Sulphide.

### 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)

Antimony	7.3
Arsenic	55
Barium	73
Bromine	<2
Cadmium	<10
Caesium	18
Calcium (%)	nr
Cerium	<5
Chromium	36
Cobalt	20
Europium	<0.5
Gold (ppb)	4500
Hafnium	11
Iridium (ppb)	<50
Iron (%)	4.2
Lanthanum	4
Lutetium	0.3
Mercury	nr
Molybdenum	<10
Neodymium	nr
Nickel	66
Potassium (%)	nr
Rubidium	469
Samarium	1.6
Scandium	15.6
Selenium	<10
Silver	<5
Sodium (%)	1.31
Strontium	nr
Tantalum	<2
Tellurium	<20
Terbium	<1
Thorium	0.7
Tin	<200
Tungsten	19
Uranium	1
Ytterbium	1.4
Zinc	<200
Zirconium	<500

### Major Elements by Fusion / XRF (%)

Fe	4
SiO <sub>2</sub>	72.42
Al <sub>2</sub> O <sub>3</sub>	8.75
TiO <sub>2</sub>	0.56
MnO	0.09
CaO	2.37
P	0.036
S	0.66
MgO	1.27
K <sub>2</sub> O	3.2
Na <sub>2</sub> O	1.73
LOI1000	3.49

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

'nr': Not Reported