

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G923-7

Certified Control Values

50 gram Fire Assay

Gold Grade 6.75 ppm
Standard Deviation 0.30 ppm
Confidence Interval +/- 0.047 ppm

Aqua Regia Digest

Gold Grade 2.43 ppm
Standard Deviation nr ppm
Confidence Interval nr ppm



CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the October-2023 round robin. A total of 158 fire assay results and nr results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a Copper Gold ore - not suitable for AR.

Colour Designation (ISCC-NBS, SP440)

This material is pale yellowish brown 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	13.3
Arsenic	1490
Barium	421
Bromine	<2
Cadmium	<10
Caesium	10
Calcium (%)	nr
Cerium	48
Chromium	243
Cobalt	42
Europium	1
Gold (ppb)	6600
Hafnium	<5
Iridium (ppb)	<50
Iron (%)	8.2
Lanthanum	24
Lutetium	0.3
Mercury	nr
Molybdenum	53
Neodymium	nr
Nickel	325
Potassium (%)	nr
Rubidium	90
Samarium	4.6
Scandium	17.7
Selenium	<10
Silver	<5
Sodium (%)	0.97
Strontium	nr
Tantalum	<2
Tellurium	<20
Terbium	<1
Thorium	6.2
Tin	<200
Tungsten	29
Uranium	4
Ytterbium	2.2
Zinc	606
Zirconium	<500

Major Elements by Fusion / XRF (%)

Fe	8.26
SiO ₂	55.02
Al ₂ O ₃	12.67
TiO ₂	0.729
MnO	0.115
CaO	4.305
P	0.054
S	1.77
MgO	2.21
K ₂ O	2.43
Na ₂ O	1.392
LOI1000	6.405

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