Major Elements by

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G322-8

Certified Control Values

50 gram Fire Assay

Gold Grade 1.10 ppm Standard Deviation 0.05 ppm Confidence Interval +/- 0.006 ppm

Aqua Regia Digest

Gold Grade 1.07 ppm Standard Deviation 0.05 ppm Confidence Interval +/- 0.011 ppm



Neutron Activation

CRM Details

Control Statistic Details

Control statistics were produced from results accumulated in the April-2022, April-2008 round robins. A total of 271 fire assay results and 87 results from an aqua regia technique were used to certify this material.

Material Description

This material is described as a Head composite.

Colour Designation (ISCC-NBS, SP440)

This material is light brownish gray 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.

<u>Material Safety</u>

This product is not hazardous and non-toxic.

Analysis Results (ppm,		Fusion / XRF (%)		
unless otherwise noted)				
Antimony	8.0	Fe	6.23	
Arsenic	1.3	SiO ₂	59.59	
Barium	1710	Al ₂ O ₃	14.51	
Bromine	<2	TiO ₂	1.25	
Cadmium	<10	MnO	0.12	
Caesium	2	CaO	5.06	
Calcium (%)	nr	Р	0.12	
Cerium	154	S	0.12	
Chromium	43	MgO	2.84	
Cobalt	24	K ₂ O	2.97	
Europium	2.5	Na ₂ O	3.36	
Gold (ppb)	1150	LOI1000	0.86	
Hafnium	8			
Iridium (ppb)	<50	Neutron Act	ivation	
Iron (%)	6.8	Analyses an	s and Fusion /	
Lanthanum	84	XRF Analyses are		
Lutetium	0.7	single results and are		
Mercury	nr	, and the second		
Molybdenum	<10	indicative or	•	
Neodymium	nr	are provided	rovided for matrix	
Nickel	32	identification	purposes	
Potassium (%)	nr			
Rubidium	78	'nr': Not Rep	orted	
Samarium	12.1			
Scandium	19			
Selenium	<10			
Silver	9			
Sodium (%)	2.53			
Strontium	nr			
Tantalum	<2			
Tellurium	<20			
Terbium	2			
Thorium	27.1			
Tin	<200			
Tungsten	<2			
Uranium	4			
Ytterbium	4.6			
Zinc	<200			
Zirconium	<500			

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