

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

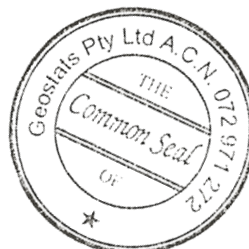
Certified Low Level Gold Reference Material Product Code

GLG312-1

Certified Control Values

Low Level Gold

Gold Grade	20.65 ppb
Standard Deviation	2.82 ppb
Confidence Interval	+/- 0.7 ppb



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 April-2012 round robin. A total of 65 gold assays were used to certify this material.	Antimony	1.47	Fe
<u>Material Description</u> This material is described as a Milled Oxide material.	Arsenic	10	SiO ₂	49.03
	<u>Colour Designation (ISCC-NBS, SP440)</u> This material is pale reddish brown in colour.	Barium	400	Al ₂ O ₃
<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.		Bromine	3.2	TiO ₂
	<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.	Cadmium	<10	MnO
<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.		Caesium	3	CaO
	<u>Stability</u> This product remains stable in its original packaging, away from direct sunlight.	Calcium (%)	nr	P
<u>Material Safety</u> This product is not hazardous and non-toxic.		Cerium	41	S
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Chromium	110	MgO
<u>Major Elements by Fusion / XRF (%)</u>		Cobalt	9.13	K ₂ O
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Europium	0.5	NazO
<u>Major Elements by Fusion / XRF (%)</u>		Gold (ppb)	20	LOI1000
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Hafnium	8	Neutron Activation Analyses and Fusion / XRF Analyses are single results and are indicative only. These are provided for matrix identification purposes. 'nr': Not Reported
<u>Major Elements by Fusion / XRF (%)</u>		Iridium (ppb)	<10	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Iron (%)	8.4	
<u>Major Elements by Fusion / XRF (%)</u>		Lanthanum	21	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Lutetium	0.2	
<u>Major Elements by Fusion / XRF (%)</u>		Mercury	nr	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Molybdenum	10	
<u>Major Elements by Fusion / XRF (%)</u>		Neodymium	nr	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Nickel	10	
<u>Major Elements by Fusion / XRF (%)</u>		Potassium (%)	nr	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Rubidium	110	
<u>Major Elements by Fusion / XRF (%)</u>		Samarium	2.5	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Scandium	12.6	
<u>Major Elements by Fusion / XRF (%)</u>		Selenium	<5	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Silver	<1	
<u>Major Elements by Fusion / XRF (%)</u>		Sodium (%)	1.62	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Strontium	nr	
<u>Major Elements by Fusion / XRF (%)</u>		Tantalum	1.9	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Tellurium	<10	
<u>Major Elements by Fusion / XRF (%)</u>		Terbium	0.5	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Thorium	49.3	
<u>Major Elements by Fusion / XRF (%)</u>		Tin	<100	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Tungsten	1	
<u>Major Elements by Fusion / XRF (%)</u>		Uranium	9.5	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Ytterbium	1.35	
<u>Major Elements by Fusion / XRF (%)</u>		Zinc	30	
	<u>Neutron Activation Analysis Results (ppm, unless otherwise noted)</u>	Zirconium	200	

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