

# GEOSTATS PTY LTD

Mining Industry Consultants  
Reference Material Manufacture and Sales

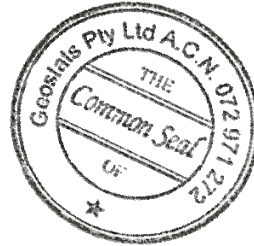
## Certified Gold Reference Material Product Code

# G311-1

### Certified Control Values

<u>50 gram Fire Assay</u>	
Gold Grade	0.52 ppm
Standard Deviation	0.04 ppm
Confidence Interval	+/- 0.006 ppm

<u>Aqua Regia Digest</u>	
Gold Grade	0.51 ppm
Standard Deviation	0.04 ppm
Confidence Interval	+/- 0.01 ppm



### CRM Details

<u>Control Statistic Details</u>	<u>Neutron Activation Analysis Results (ppm)</u>		<u>Major Elements Fusion / XRF (%)</u>	
	Control statistics were produced from results accumulated in the : <u>April 2011</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>138</u> laboratories tested this material using 50 gram Fire Assay. <u>61</u> laboratories tested it using an Aqua Regia Technique.	Antimony	1.39	Fe
<u>Source Material</u> Prior to homogenisation and testing, this material was sourced from Cut - off oxide ore	Arsenic	0.93	SiO2	62.82
<u>Colour Designation</u> Pale Red	Barium	457	Al2O3	13.81
<u>Usage</u> This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.	Bromine	0.559	TiO2	1.09
<u>Preparation and Packaging</u> All standards are dried in an oven for a minimum of 12 hours at 110C. 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	<5	MnO	0.11
<u>Assay Testwork</u> All standards are tested thoroughly in the Geostats bi-annual laboratory survey. This involves assaying by a minimum of 50 reputable laboratories selected from across 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.	Cerium	44.9	CaO	5.22
	Caesium	2.57	P	0.059
	Chromium	87.8	S	0.041
	Cobalt	22.6	MgO	2.7
	Europium	0.976	K2O	2.25
	Gold ppb	540	Na2O	3.239
	Hafnium	4.12	LOI1000	0.4
	Iridium ppb	<20		
	Iron %	5.93		
	Lanthanum	21.8		
	Lutetium	nr		
	Molybdenum	8.63		
	Nickel	25.5		
	Rubidium	113		
	Samarium	5.06		
	Scandium	19.3		
	Selenium	<5		
	Sodium %	2.51		
	Tantalum	1.44		
	Tellurium	<5		
	Terbium	0.973		
	Thorium	16.4		
	Tin	<100		
	Tungsten	<2		
	Uranium	9.11		
	Ytterbium	2.27		
	Zinc	75.1		
	Zirconium	<200		
	Calcium%	nr		
	Potassium %	nr		
	Silver	3		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		

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