

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G997-1

Certified Control Values

50 gram Fire Assay	
Gold Grade	0.41 ppm
Standard Deviation	0.04 ppm
Confidence Interval	+/- 0.009 ppm

Aqua Regia Digest	
Gold Grade	0.40 ppm
Standard Deviation	0.06 ppm
Confidence Interval	+/- 0.014 ppm



CRM Details

Control Statistic Details	Neutron Activation Analysis Results (ppm)		Major Elements Fusion / XRF (%)	
	Control statistics were produced from results accumulated in the : <u>October-1997</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>82</u> laboratories tested this material using 50 gram Fire Assay. <u>71</u> laboratories tested it using an Aqua Regia Technique.	Antimony	0.96	Fe
Source Material Prior to homogenisation and testing, this material was sourced from Fresh basaltic Ore in the South West Mineral Field.	Arsenic	14.9	SiO2	nr
Colour Designation Very light gray	Barium	138	Al2O3	nr
Usage This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.	Bromine	<1	TiO2	nr
Preparation and Packaging 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	nr	MnO	nr
Assay Testwork 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	20.6	CaO	nr
	Caesium	19.1	P	nr
	Chromium	262	S	nr
	Cobalt	10	MgO	nr
	Europium	<0.5	K2O	nr
	Gold ppb	380	Na2O	nr
	Hafnium	12.4	LOI1000	nr
	Iridium ppb	<20		
	Iron %	1.7		
	Lanthanum	10.1		
	Lutetium	<0.2		
	Molybdenum	<5		
	Nickel	nr		
	Rubidium	497		
	Samarium	1.85		
	Scandium	4.98		
	Selenium	<5		
	Sodium %	1.79		
	Tantalum	<1		
	Tellurium	<5		
	Terbium	nr		
	Thorium	3.61		
	Tin	nr		
	Tungsten	10.1		
	Uranium	<2		
	Ytterbium	0.83		
	Zinc	<100		
	Zirconium	<500		
	Calcium%	1.56		
	Potassium %	2.35		
	Silver	<5		
	Mercury	nr		
	Neodymium	nr		
	Strontium	nr		

10A Marsh Close, O'Connor, Western Australia 6163
Phone : +61 8 9314 2566, Fax : +61 8 9314 3699
e-mail : pjh@geostats.com.au, srr@geostats.com.au
Website <http://www.geostats.com.au>

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