

GEOSTATS PTY LTD

Mining Industry Consultants
Reference Material Manufacture and Sales

Certified Gold Reference Material Product Code

G910-10

Certified Control Values

50 gram Fire Assay

Gold Grade	0.97 ppm
Standard Deviation	0.04 ppm
Confidence Interval	+/- 0.007 ppm

Aqua Regia Digest

Gold Grade	0.95 ppm
Standard Deviation	0.06 ppm
Confidence Interval	+/- 0.015 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-2010</u> Geostats Pty Ltd Laboratory Round Robin Program. <u>135</u> laboratories tested this material using 50 gram Fire Assay. <u>64</u> laboratories tested it using an Aqua Regia Technique.	Antimony	2.1	Fe
Source Material Prior to homogenisation and testing, this material was sourced from Oxide Ore	Arsenic	0.901	SiO2	59.73
Colour Designation Pale Red	Barium	404	Al2O3	14.18
Usage This product is for use in the mining industry as reference materials for monitoring and testing the accuracy of laboratory assaying.	Bromine	0.587	TiO2	1.353
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	<5	MnO	0.13
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	38.8	CaO	6.72
	Caesium	2.38	P	0.069
	Chromium	84.5	S	0.036
	Cobalt	21.9	MgO	3.62
	Europium	1.47	K2O	1.66
	Gold ppb	1020	Na2O	3.159
	Hafnium	3.97	LOI1000	0.23
	Iridium ppb	<10		
	Iron %	6.16		
	Lanthanum	22.8		
	Lutetium	0.432		
	Molybdenum	9.33		
	Nickel	34.8		
	Rubidium	110		
	Samarium	4.5		
	Scandium	18.8		
	Selenium	<5		
	Sodium %	2.32		
	Tantalum	1.3		
	Tellurium	<10		
	Terbium	0.815		
	Thorium	15		
	Tin	<100		
	Tungsten	<2		
	Uranium	8.25		
	Ytterbium	2.89		
	Zinc	86.9		
	Zirconium	<200		
	Calcium%	nr		
	Potassium %	nr		
	Silver	2		
	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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