# GEOSTATS PTY LTD

**Mining Industry Consultants**
**Reference Material Manufacture and Sales**

**Certified Reference Material Product Code**

# GMO-01

**Certified Control Values**

| Element | Grade | Standard Deviation | No of Analyses | Confidence Interval |
|---|---|---|---|---|
| Molybdenum (ppm) | 979 | 73 | 48 | +/- 20.8 |
| Copper (ppm) | 81.0 | 4.8 | 46 | +/- 1.38 |
| Silver (ppm) | 0.49 | 0.10 | 28 | +/- 0.035 |
| Lead (ppm) | 27.0 | 2.6 | 49 | +/- 0.73 |
| Zinc (ppm) | 105 | 4.8 | 48 | +/- 1.4 |
| Bismuth (ppm) | 16.1 | 2.4 | 49 | +/- 0.69 |
| Arsenic (ppm) | 0.9 | 0.13 | 16 | +/- 0.06 |
| Antimony (ppm) | 1.71 | 0.31 | 34 | +/- 0.105 |
| Tungsten (ppm) | 1.5 | 0.34 | 29 | +/- 0.13 |
| Sulphur (%) | 0.17 | 0.012 | 47 | +/- 0.003 |

**CRM Details**

**Control Statistic Details**

Control values for this material were determined during a dedicated certification program.

**Source Material**

Prior to homogenisation and testing, this material was sourced from:

Molybdenum concentrate / granite diorite composite

**Colour Designation**

Light bluish gray

**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 reference materials are dried in an oven for a minimum of 12 hours at 110 $^{o}$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 tubs ready for distribution. All packaging has been chosen to ensure minimal contamination from outside sources during shipment, use and storage.

**Assay Testwork**

This standard was thoroughly tested in a dedicated certification program. 10 samples of the product were analysed by 5 reputable laboratories. Results are compiled into a comprehensive report detailing statistics for the reference material. Assay distributions are checked and processed statistically, producing monitoring statistics for the product. Materials are tested regularly to ensure stability and homogeneity.

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