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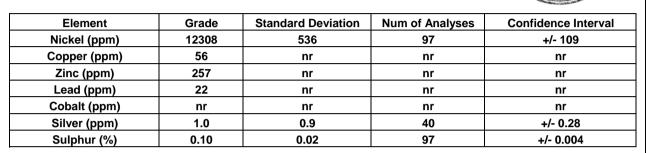
## **GEOSTATS PTY LTD**

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

Py Ltd A.C. Certified Ore Grade Base Metal Reference Material Product Code

## **GBM316-15**

## **Certified Control Values**



## **CRM Details**

|  | Neutron Activation      |       | Major Elements by                       |       |
|--|-------------------------|-------|---|-------|
| Control Statistic Details  | Analysis Results (ppm,  |       | Fusion / XRF (%)                        |       |
| Control statistics were produced from results accumulated in the April-2016          | unless otherwise noted) |       |   |       |
| round robin. The number of results used to certify each analyte is shown in the      | Antimony                | 0.4   | Fe                                      | 19.33 |
| table above.   | Arsenic                 | 1.92  | SiO <sub>2</sub>                        | 43.28 |
|  | Barium                  | 50    | Al <sub>2</sub> O <sub>3</sub>          | 5.23  |
| Material Description   | Bromine                 | 9     | TiO <sub>2</sub>                        | 0.246 |
| This material is described as a Nickel laterite.                                     | Cadmium                 | <10   | MnO                                     | 0.436 |
|  | Caesium                 | <1    | CaO                                     | 0.25  |
|  | Calcium (%)             | nr    | Р                                       | 0.006 |
| Colour Designation (ISCC-NBS, SP440)   | Cerium                  | 9.74  | S                                       | 0.102 |
| This material is pale yellowish brown in colour.                                     | Chromium                | 6390  | MgO                                     | 10.3  |
|  | Cobalt                  | 640   | K <sub>2</sub> O                        | 0.067 |
| Usage  | Europium                | 0.9   | Na <sub>2</sub> O                       | 0.395 |
| This product is for use in the mining industry as a reference material for           | Gold (ppb)              | <10   | LOI1000                                 | 10.73 |
| monitoring and testing the accuracy of laboratory assaying.                          | Hafnium                 | <5    |   |       |
|  | Iridium (ppb)           | <50   | Neutron Activation                      |       |
| Preparation and Packaging  | Iron (%)                | 18.3  | Analyses and Fusion /                   |       |
| All CRMs are dried in an oven for a minimum of 12 hours at 110°C. The dry            | Lanthanum               | 10    | XRF Analyses are single results and are |       |
| material is then pulverised to better than 75 micron (nominal mean of 45 micron)     | Lutetium                | 0.227 |   |       |
| using an air classifier. The material is then homogenised and stored in a sealed,    | Mercury                 | nr    |   |       |
| stable container ready for final packaging.  | Molybdenum              | <10   | indicative only. These                  |       |
|  | Neodymium               | nr    | are provided for matrix                 |       |
| Materials are statistically sampled from stores, then packaged into either heat      | Nickel                  | 11600 | identification purposes.                |       |
| sealed, air tight, plastic pulp packets or screw top sealed plastic containers ready | Potassium (%)           | nr    |   |       |
| for distribution. All packaging has been chosen to ensure minimal contamination      | Rubidium                | <20   | 'nr': Not Reported                      |       |
| from outside sources during shipment, use and storage.                               | Samarium                | 2.5   |   |       |
|  | Scandium                | 24    |   |       |
| Assay Testwork   | Selenium                | <10   |   |       |
| All standards are tested thoroughly in the Geostats bi-annual laboratory survey.     | Silver                  | <5    |   |       |
| This involves assaying by multiple laboratories from around the world. Results       | Sodium (%)              | 0.282 |   |       |
| are compiled into a comprehensive report detailing statistics for each standard.     | Strontium               | nr    |   |       |
| Assay distributions are checked and processed statistically, producing               | Tantalum                | <2    |   |       |
| monitoring statistics for these standards. Materials are tested regularly to ensure  | Tellurium               | <20   |   |       |
| stability and homogeneity.   | Terbium                 | <1    |   |       |
|  | Thorium                 | 0.6   |   |       |
| <u>Stability</u>   | Tin                     | <200  |   |       |
| This product remains stable in its original packaging, away from direct sunlight.    | Tungsten                | <5    |   |       |
|  | Uranium                 | <1    |   |       |
| Material Safety  | Ytterbium               | 2     |   |       |
| This product is not hazardous and non-toxic.   | Zinc                    | 300   |   |       |
|  | Zirconium               | <500  |   |       |

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