

## **Fresh volcanic arc granite, Pilbara, WA**

Art. ID GEO-GBM922-4  
Unit Powder 10g or 1 kg  
Deliverydetails No Dangerous Good /not restricted

| Text/Information                        | Analyte/Parameter | CAS number  | Concentration/Value | Unit | Method                      | Source |
|---|-------------------|-------------|---------------------|------|-----------------------------|--------|
| Certified value                         | Nickel (Ni)       | [7440-02-0] | 0,0018              | %    |                             |        |
| Certified value                         | Copper (Cu)       | [7440-50-8] | 0,0067              | %    |                             |        |
| Certified value                         | Zinc (Zn)         | [7440-66-6] | 0,0052              | %    |                             |        |
| Certified value                         | Lead              | [7439-92-1] | 0,0012              | %    |                             |        |
| Certified value                         | Arsenic (As)      | [7440-38-2] | 0,0738              | %    |                             |        |
| Certified value                         | Cobalt (Co)       | [7440-48-4] | 0,0007              | %    |                             |        |
| Certified value                         | Silver (Ag)       | [7440-22-4] | 0,0000001           | %    |                             |        |
| Certified value                         | Nickel (Ni)       | [7440-02-0] | 0,0017              | %    | Partial Digest (AR etc.)    |        |
| Certified value                         | Copper (Cu)       | [7440-50-8] | 0,0067              | %    | Partial Digest (AR etc.)    |        |
| Certified value                         | Zinc (Zn)         | [7440-66-6] | 0,0049              | %    | Partial Digest (AR etc.)    |        |
| Certified value                         | Lead              | [7439-92-1] | 0,001               | %    | Partial Digest (AR etc.)    |        |
| Certified value                         | Arsenic (As)      | [7440-38-2] | 0,0735              | %    | Partial Digest (AR etc.)    |        |
| Certified value                         | Cobalt (Co)       | [7440-48-4] | 0,0007              | %    | Partial Digest (AR etc.)    |        |
| Certified value                         | Silver (Ag)       | [7440-22-4] | 0,00005             | %    | Partial Digest (AR etc.)    |        |
| Single analysis only -<br>Not certified | Antimony (Sb)     | [7440-36-0] | 0,00112             | %    | Neutron activation analyses |        |

|   |               |             |           |   |                                     |
|---|---------------|-------------|-----------|---|-------------------------------------|
| Single analysis only -<br>Not certified | Arsenic (As)  | [7440-38-2] | 0,0743    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Barium (Ba)   | [7440-39-3] | 0,0235    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Bromine (Br)  | [7726-95-6] | <0,0002   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Cadmium (Cd)  | [7440-43-9] | <0,001    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Cerium (Ce)   | [7440-45-1] | 0,0039    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Caesium (Cs)  | [7440-46-2] | 0,0006    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Chromium (Cr) | [7440-47-3] | 0,0034    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Cobalt (Co)   | [7440-48-4] | 0,0008    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Europium (Eu) | [7440-53-1] | 0,00008   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Gold (Au)     | [7440-57-5] | 0,0151    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Hafnium (Hf)  | [7440-58-6] | <0,0005   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Iridium (Ir)  | [7439-88-5] | <0,000005 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Iron (Fe)     | [7439-89-6] | 2,2       | % | Neutron ac<br>tivation a            |

|   |                 |              |         |   |                                     |
|---|-----------------|--------------|---------|---|-------------------------------------|
| Single analysis only -<br>Not certified | Lanthanum (La)  | [7439-91-0]  | 0,0018  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Lutetium (Lu)   | [7439-94-3]  | 0,00003 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Molybdenum (Mo) | [7439-98-7]  | <0,001  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Nickel (Ni)     | [7440-02-0]  | <0,01   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Rubidium (Rb)   | [7440-17-7]  | 0,0066  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Samarium (Sm)   | [7440-19-9]  | 0,00038 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Scandium (Sc)   | [7440-20-2]  | 0,00089 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Selenium (Se)   | [7782-49-2]  | <0,001  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Sodium (Na)     | [7440-23-5]  | 0,84    | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tantalum (Ta)   | [7440-25-7]  | <0,0002 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tellurium (Te)  | [13494-80-9] | <0,002  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Terbium (Tb)    | [7440-27-9]  | <0,0001 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -                  | Thorium (Th)    | [7440-29-1]  | 0,0006  | % | Neutron ac                          |

|   |                                |             |         |   |                                     |
|---|--------------------------------|-------------|---------|---|-------------------------------------|
| Not certified                           |                                |             |         |   | tivation a<br>nalyzes               |
| Single analysis only -<br>Not certified | Tin                            | [7440-31-5] | <0,02   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Tungsten (W)                   | [7440-33-7] | 0,0006  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Uranium (U)                    | [7440-61-1] | 0,0001  | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Ytterbium (Yb)                 | [7440-64-4] | 0,00017 | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Zinc (Zn)                      | [7440-66-6] | <0,02   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Zirconium (Zr)                 | [7440-67-7] | <0,05   | % | Neutron ac<br>tivation a<br>nalyzes |
| Single analysis only -<br>Not certified | Silver (Ag)                    | [7440-22-4] | <0,0005 | % | Neutron ac<br>tivation a<br>nalyzes |
| Indicative value                        | Iron (Fe)                      | [7439-89-6] | 2,2     | % | Fusion / X<br>RF                    |
| Indicative value                        | SiO <sub>2</sub>               |             | 66,2    | % | Fusion / X<br>RF                    |
| Indicative value                        | Al <sub>2</sub> O <sub>3</sub> |             | 14,46   | % | Fusion / X<br>RF                    |
| Indicative value                        | TiO <sub>2</sub>               |             | 0,51    | % | Fusion / X<br>RF                    |
| Indicative value                        | MnO                            |             | 0,05    | % | Fusion / X<br>RF                    |
| Indicative value                        | CaO                            |             | 3,05    | % | Fusion / X<br>RF                    |
| Indicative value                        | Phosphorus (P)                 | [7723-14-0] | 0,034   | % | Fusion / X<br>RF                    |
| Indicative value                        | Sulfur (S)                     | [7704-34-9] | 0,72    | % | Fusion / X                          |

|                  |  |             |      |   |            |
|------------------|--|-------------|------|---|------------|
|                  |  |             |      |   | RF         |
| Indicative value | MgO                                    | [1309-48-4] | 2,12 | % | Fusion / X |
|                  |  |             |      |   | RF         |
| Indicative value | K <sub>2</sub> O                       |             | 2,11 | % | Fusion / X |
|                  |  |             |      |   | RF         |
| Indicative value | Na <sub>2</sub> O                      |             | 1,16 | % | Fusion / X |
|                  |  |             |      |   | RF         |
| Indicative value | Loss on Ignition (L.O.I<br>) (1000 °C) |             | 5,75 | % |            |