

## Basalt

Art. ID GSJ-JB-2  
Unit 20 g  
Deliverydetails No Dangerous Good /not restricted

### Description

recommended or preferable values for major, minor and trace elements

| Text/Information | Analyte/Parameter                          | CAS number  | Concentration/Value | Unit | Method | Source |
|------------------|--------------------------------------------|-------------|---------------------|------|--------|--------|
|                  | Silver (Ag)                                | [7440-22-4] | ~0,0000072          | %    |        |        |
|                  | Aluminium (Al)                             | [7429-90-5] | 7,75                | %    |        |        |
|                  | Al <sub>2</sub> O <sub>3</sub>             |             | 14,64               | %    |        |        |
|                  | Arsenic (As)                               | [7440-38-2] | 0,000287            | %    |        |        |
|                  | Gold (Au)                                  | [7440-57-5] | 0,000000564         | %    |        |        |
|                  | Boron (B)                                  | [7440-42-8] | 0,00302             | %    |        |        |
|                  | Barium (Ba)                                | [7440-39-3] | 0,0222              | %    |        |        |
|                  | Beryllium (Be)                             | [7440-41-7] | ~0,000026           | %    |        |        |
|                  | Bismuth (Bi)                               | [7440-69-9] | ~0,0000033          | %    |        |        |
|                  | Carbon (C)                                 | [7440-44-0] | ~0,0218             | %    |        |        |
|                  | Calcium (Ca)                               | [7440-70-2] | 7,02                | %    |        |        |
|                  | CaO                                        |             | 9,82                | %    |        |        |
|                  | Cadmium (Cd)                               | [7440-43-9] | 0,000014            | %    |        |        |
|                  | Cerium (Ce)                                | [7440-45-1] | 0,000676            | %    |        |        |
|                  | Chlorine (Cl)                              | [7782-50-5] | 0,0281              | %    |        |        |
|                  | Cobalt (Co)                                | [7440-48-4] | 0,0038              | %    |        |        |
|                  | Chromium (Cr)                              | [7440-47-3] | 0,00281             | %    |        |        |
|                  | Caesium (Cs)                               | [7440-46-2] | 0,000085            | %    |        |        |
|                  | Copper (Cu)                                | [7440-50-8] | 0,0225              | %    |        |        |
|                  | Dysprosium (Dy)                            | [7429-91-6] | 0,000373            | %    |        |        |
|                  | Erbium (Er)                                | [7440-52-0] | 0,00026             | %    |        |        |
|                  | Europium (Eu)                              | [7440-53-1] | 0,000086            | %    |        |        |
|                  | Fluorine (F)                               | [7782-41-4] | 0,00985             | %    |        |        |
|                  | Iron (Fe)                                  | [7439-89-6] | 9,97                | %    |        |        |
|                  | FeO                                        |             | 9,98                | %    |        |        |
|                  | Fe <sub>2</sub> O <sub>3</sub>             |             | 3,33                | %    |        |        |
|                  | Total Fe as Fe <sub>2</sub> O <sub>3</sub> |             | 14,25               | %    |        |        |
|                  | Gallium (Ga)                               | [7440-55-3] | 0,0017              | %    |        |        |
|                  | Gadolinium (Gd)                            | [7440-54-2] | 0,000328            | %    |        |        |

|                               |             |              |   |
|-------------------------------|-------------|--------------|---|
| Germanium (Ge)                | [7440-56-4] | 0,000135     | % |
| H <sub>2</sub> O              |             | 0,13 (~)     | % |
| H <sub>2</sub> O+             |             | 0,25         | % |
| Hafnium (Hf)                  | [7440-58-6] | 0,000149     | % |
| Mercury (Hg)                  | [7439-97-6] | 0,000000478  | % |
| Holmium (Ho)                  | [7440-60-0] | 0,000075     | % |
| Iodine (I)                    | [7553-56-2] | ~0,0000049   | % |
| Indium (In)                   | [7440-74-6] | 0,0000094    | % |
| Potassium (K)                 | [7440-09-7] | 0,35         | % |
| K <sub>2</sub> O              |             | 0,42         | % |
| Lanthanum (La)                | [7439-91-0] | 0,000235     | % |
| Lithium (Li)                  | [7439-93-2] | 0,000778     | % |
| Lutetium (Lu)                 | [7439-94-3] | 0,00004      | % |
| Magnesium (Mg)                | [7439-95-4] | 2,79         | % |
| MgO                           | [1309-48-4] | 4,62         | % |
| Manganese (Mn)                | [7439-96-5] | 0,169        | % |
| MnO                           |             | 0,218        | % |
| Molybdenum (Mo)               | [7439-98-7] | 0,000108     | % |
| Sodium (Na)                   | [7440-23-5] | 1,51         | % |
| Na <sub>2</sub> O             |             | 2,04         | % |
| Niobium (Nb)                  | [7440-03-1] | ~0,000158    | % |
| Neodymium (Nd)                | [7440-00-8] | 0,000663     | % |
| Nickel (Ni)                   | [7440-02-0] | 0,00166      | % |
| Phosphorus (P)                | [7723-14-0] | 0,044        | % |
| P <sub>2</sub> O <sub>5</sub> |             | 0,101        | % |
| Lead (Pb)                     | [7439-92-1] | 0,000536     | % |
| Praseodymium (Pr)             | [7440-10-0] | 0,000101     | % |
| Rubidium (Rb)                 | [7440-17-7] | 0,000737     | % |
| Rhenium (Re)                  | [7440-15-5] | ~0,000000038 | % |
| Sulfur (S)                    | [7704-34-9] | 0,00179      | % |
| Antimony (Sb)                 | [7440-36-0] | 0,000025     | % |
| Scandium (Sc)                 | [7440-20-2] | 0,00535      | % |
| Selenium (Se)                 | [7782-49-2] | ~0,000019    | % |
| Silicon (Si)                  | [7440-21-3] | 24,89        | % |
| SiO <sub>2</sub>              |             | 53,25        | % |
| Samarium (Sm)                 | [7440-19-9] | 0,000231     | % |
| Tin (Sn)                      | [7440-31-5] | 0,000095     | % |
| Strontium (Sr)                | [7440-24-6] | 0,0178       | % |

|                  |             |            |   |
|------------------|-------------|------------|---|
| Tantalum (Ta)    | [7440-25-7] | 0,000013   | % |
| Terbium (Tb)     | [7440-27-9] | 0,00006    | % |
| Thorium (Th)     | [7440-29-1] | 0,000035   | % |
| Titanium (Ti)    | [7440-32-6] | 0,71       | % |
| TiO <sub>2</sub> |             | 1,19       | % |
| Thallium (Tl)    | [7440-28-0] | ~0,0000042 | % |
| Thulium (Tm)     | [7440-30-4] | 0,000041   | % |
| Uranium (U)      | [7440-61-1] | 0,000018   | % |
| Vanadium (V)     | [7440-62-2] | 0,0575     | % |
| Tungsten (W)     | [7440-33-7] | ~0,000026  | % |
| Yttrium (Y)      | [7440-65-5] | 0,00249    | % |
| Ytterbium (Yb)   | [7440-64-4] | 0,000262   | % |
| Zinc (Zn)        | [7440-66-6] | 0,0108     | % |
| Zirconium (Zr)   | [7440-67-7] | 0,00512    | % |