

Silicon carbide powder

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|-----------------|-----------------------------------|
| Art. ID | BAM-S003a |
| Unit | 50 g bottle |
| Deliverydetails | No Dangerous Good /not restricted |

Description

The certified reference material BAM-S003a is a silicon carbide powder (type green micro F800). The material is supplied in glass bottles containing 50 g each. It is based on the same batch of candidate material as BAM-S003. The mass fraction of the element O differs slightly from the original material. Therefore this element is given only for information with a higher uncertainty. All mass fractions are obtained from the certification inter-laboratory comparison of BAM-S003 from 2004.

| Text/Information | Analyte/Parameter | CAS number | Concentration/Value | Unit | Method | Source |
|------------------------|-------------------|-------------|---------------------|-------|--------|--------|
| Certified value | Aluminium (Al) | [7429-90-5] | 372 ± 20 | mg/kg | | |
| Certified value | Boron (B) | [7440-42-8] | 63 ± 7 | mg/kg | | |
| Certified value | Calcium (Ca) | [7440-70-2] | 29,4 ± 2,7 | mg/kg | | |
| Certified value | Chromium (Cr) | [7440-47-3] | 3,5 ± 0,4 | mg/kg | | |
| Certified value | Copper (Cu) | [7440-50-8] | 1,5 ± 0,4 | mg/kg | | |
| Certified value | Iron (Fe) | [7439-89-6] | 149 ± 15 | mg/kg | | |
| Certified value | Magnesium (Mg) | [7439-95-4] | 6,3 ± 0,9 | mg/kg | | |
| Certified value | Manganese (Mn) | [7439-96-5] | 1,44 ± 0,25 | mg/kg | | |
| Certified value | Sodium (Na) | [7440-23-5] | 17,7 ± 0,8 | mg/kg | | |
| Certified value | Nickel (Ni) | [7440-02-0] | 32,9 ± 2,7 | mg/kg | | |
| Certified value | Titanium (Ti) | [7440-32-6] | 79 ± 4 | mg/kg | | |
| Certified value | Vanadium (V) | [7440-62-2] | 41 ± 5 | mg/kg | | |
| Certified value | Zirconium (Zr) | [7440-67-7] | 25,2 ± 2,0 | mg/kg | | |
| Certified value | Free C | | 493 ± 79 | mg/kg | | |
| Certified value, Total | Carbon (C) | [7440-44-0] | 29,89 ± 0,07 | % | | |
| Carbon | | | | | | |
| Indicative value | Nitrogen (N) | [7727-37-9] | 93 ± 22 | mg/kg | | |
| Indicative value | Oxygen (O) | [7782-44-7] | 910 ± 53 | mg/kg | | |
| Indicative value | SiO ₂ | | 600 ± 148 | mg/kg | | |
| Indicative value | Silicon (Si) | [7440-21-3] | 481 ± 223 | mg/kg | | |