

Silicon carbide powder

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		