

Grain Size Distribution

d_{10}	< 25 μm
d_{50}	~ 70 μm
d_{90}	> 190 μm
Specific Surface Area	13 \pm 1 m^2/g

Chemical Composition

SiC	base
B_4C	0.5 – 1.5 %
Fe	< 0.09 %
Ca	< 0.02 %
Al	< 0.04 %
Ti	< 0.01 %

These properties are typical but do not constitute specifications

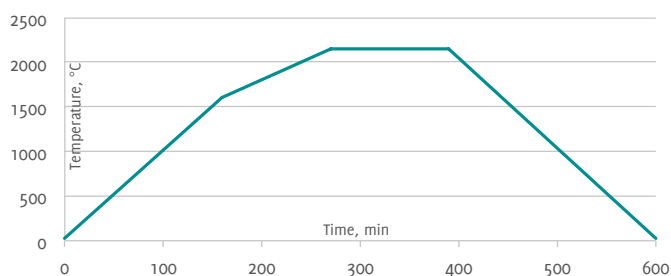
Physical Properties

Sintered Density ¹⁾	~ 3.21 g/cm^3
Apparent Density	~ 0.88 g/cm^3
Flexural Strength	~ 560 MPa
Young's Modulus	~ 410 GPa
Shrinkage	~ 18%
Color	dark grey

1) at 200 MPa

Recommended Sintering Conditions

Pressure	30 MPa
Max. Sinter Temperature	2150 °C



The shown debinding and sintering cycles are exemplary. More information on request.

Applications

For Hot Pressing

Advantages

- High density and high strength material that reaches the theoretical density of SiC
- Good flow and mold filling behavior
- Does not contain organics
- Easy to press

