

Technical Data Sheet

Silicon Carbide Ceramic SiSiC

Unbeatable in cases of

- strong abrasive and impact wear
- extreme temperature changes
- service temperature up to 1.350°C

Physical Properties

Bulk density	3,05	g/cm ³
Porosity	0	%
Hardness to Mohs	~ 9 – 9,5	
Compressive strength	1200	MPa
Flexural strength	360	MPa
Coefficient of expansion	4,2 x 10 ⁻⁶	1/K
Thermal conductivity	110	W/mK
Max. operating temperature	1.350	°C

Chemical Composition

Components	Mean Values (Weight-%)
SiC	> 75
Si-Metall	< 25

Chemical Resistance

Strong resistance to corrosion; strong resistant to acids (except to nitric acids); some limitations to extremely high alkaline concentrations

All values were determined on test bodies and are mean values from standard test methods and therefore do not constitute guaranteed properties for construction items of all kinds, linings etc. in the sense of assured product values; in cases of doubt, pilot trials and/or item tests are recommendable

