

Technical Data Sheet

SC Hard Ceramic

Economical in cases of

- medium-level abrasive wear
- fine-grain bulk solids
- service temperatures up to 500°C

Physical Properties

Bulk density	2,4 - 2,5	g/cm ³
Porosity	0 - 2	%
Hardness to Mohs	6 - 7	
Compressive strength	300 - 400	MPa
Flexural strength	40 - 60	MPa
Coefficient of expansion	5 x 10 ⁻⁶	1/K
Thermal conductivity	1,6	W/mK
Max. operating temperature	500	°C

Chemical Composition

Components	Mean Values (Weight-%)
SiO ₂	72
Al ₂ O ₃	20
Fe ₂ O ₃	1,5
K ₂ O	4
Others	2,5

Chemical Resistance

Resistant to corrosion; resistant to almost all acids and alkalis (except HF-compounds); usable for moist and chemically aggressive bulk materials and operating conditions.

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

