

Chemically bound ceramics on the basis of Siliconcarbide

Physical Properties

Bulk density:	2.8	g/cm ³
Hardness to Mohs:	~ 8	
Maximum particle size:	3	mm
Compressive strength:	after 2 days:	95 N/mm ²
	after 7 days:	130 N/mm ²
	after 28 days:	150 N/mm ²
Flexural strength:	after 2 days:	13 N/mm ²
	after 7 days:	18 N/mm ²
	after 28 days:	20 N/mm ²
Coefficient of expansion:	1,0 x 10 ⁻⁵	1/K
Thermal conductivity:	5,0	W/mK
Maximum operating temperature:	400	°C
Shrinkage during drying process:	~ 0,1-0,2	%

Chemical Composition

Components	Mean Values (Weight-%)
CaO	16
SiC	60
SiO ₂	22
Others	2

Additives

Steel fibres	4,5
Water	5 - 6

Wear Resistance

DIN 52 108 Böhme-disc ¹⁾	0,5-1,0	cm ³ /50 cm ²
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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.