



silicon carbide

FEATURES

- High hardness
- Corrosion resistant
- High mechanical strength
- Good thermal shock
- Good thermal conductivity



QUALITY GRADE		sisic	ssic	rsic	nsic
PHYSICAL PROPERTIES					
Density	g/cm ³	≥ 3,05	≥ 3,10	≥ 2,70	≥ 3,20
Porosity	%	≤ 0,1	≤ 0,2	≤ 5,0	≤ 1,0
Flexural Strength	MPa	≥ 280	≥ 450	≥ 100	≥ 600
Compressive Strength	MPa	≥ 1200	≥ 1800	--	≥ 2500
Modulus of Elasticity	GPa	350	410	280	300
THERMAL PROPERTIES					
Thermal Expansion Coeff.	10 ⁻⁶ /°C	4,5	4,3	4,0	4,6
Thermal Conductivity	W/mk	120	100	30	12
Safe Use Temperature	°C	1380	1600	1650	1300



NOTA: These properties are typical average value and are for general guidance only, not compromising the Carbosystem company.



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