

Silicon Carbide (SiC)

Features

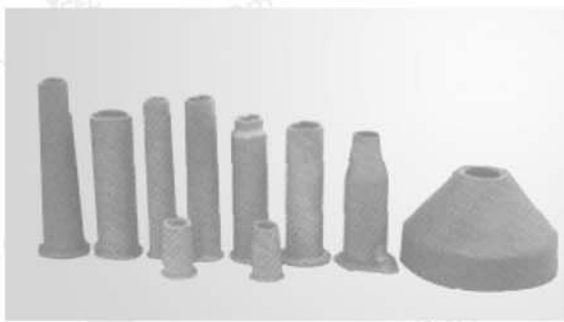
- High Hardness
- High Wear Resistance
- Good Self-lubricating Effect
- High Thermal Conductance
- Low Thermal Expansion Coefficient
- High Mechanical Strength at High Temperature
- Strong Wear and Corrosion Resistance

Applications

- Mechanical Seal
- Structure Element

Characteristics of Material

Item	Unit	Value
Bulk Density	g/cm ³	3.2
Mohs Hardness		9
Thermal Expansion Coefficient	10 ⁻⁶ /°C	4.5 (at 20~400°C)
Fracture Toughness	MPa ^{1/2}	4~5
Bending Strength	MPa	>440
Thermal Conductivity	W/m.K	>270



Covers of spray gun for the kiln



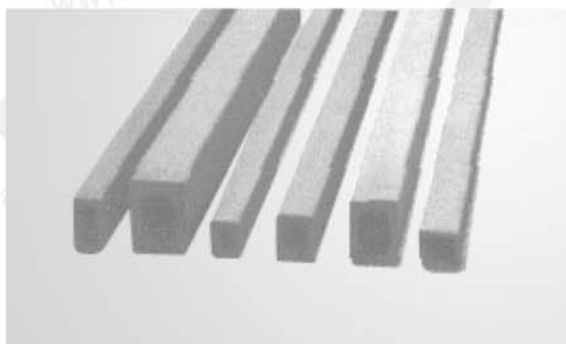
Ferrules



Pipe for the kiln



Mechanical seal



Square pipe for the kiln

