

**BASIC PROPERTIES**

- Porous material
- Good mechanical resistance at high temperature
- Dimensional stability
- Very good thermal shock resistance
- High dimensions components available
- Can be coated
- Can be used at 2000°C in controlled atmosphere
- Resists to strong acids and alcalis

**APPLICATIONS**

Tubes for furnaces  
 Beams and mounting rails  
 Rollers for furnaces  
 Load bearings

<b>MATERIAL</b>		<b>SILICON CARBIDE recrystalized</b>
Chemical Formula		Si SiC
Aspect / color		Grey
Porosity		Porous
Sic content	%	99
Free SiC content	%	0,1
<b>Mechanical</b>		<b>Measuring unit</b>
Young modulus	GPa	280
Mechanical resistance (3 pts flexion) at 20°C	MPa	80-100
Mechanical resistance (3 pts flexion) at 1000°C	MPa	90-110
<b>Physical</b>		
Density	g/cm <sup>3</sup>	2,7
Water absorption	%	5
Open porosity	%	
<b>Electrical</b>		
Dielectrical strength	kV mm <sup>-1</sup>	
<b>Thermal</b>		
Thermal conductivity at 200°C	W m <sup>-1</sup> K <sup>-1</sup>	35
Thermal conductivity at 500°C	W/m.°K	
Thermal shock resistance	°C	Excellent
Thermal expansion coefficient	10 <sup>-6</sup> K <sup>-1</sup>	4,5
Approximative using temperature loaded	°C	1600 (Ox. atm.) -2000 (inert atm.)

*\*These values are for informational purposes only and do not bind company's responsibility.*