

Recrystallized silicon carbide burner protective sleeve

■ Introduction:

Recrystallized silicon carbide burner protective sleeve is a high performance ceramic product widely used for heat conduction and protection in equipment such as high temperature burners, heat treatment furnaces and industrial furnaces.

SiC burner protective sleeve is widely used in high-temperature equipment of iron and steel, non-ferrous metals, chemical, electronics, ceramics and other industries. It is an important industrial ceramic product. SiC burner protective sleeve can effectively protect the internal structure of the burner, while improving the durability and stability of the equipment.

■ Technical data sheet:

Item	Unit	Data
Contents: SiC		≧ 99
Si ₃ N ₄	Vol%	0
Si		0
Bulk Density 20℃	g/cm ³	2.65-2.75
Apparent porosity	%	15-18
Modulus of rupture(20℃)	Mpa	80-100
Modulus of rupture(1200℃)	MPa	90-110
Modulus of rupture(1350℃)	MPa	90-120
Modulus of crushing(20℃)	MPa	300
Thermal conductivity(1200℃)	W.m ⁻¹ .k ⁻¹	36.6
Thermal expansion(1200℃)	a×10 ⁻⁶ /℃	4.69
Thermal shock resistance(1200℃)		Good
Max. Working temperature	℃	1620 (oxide)

■ Advantages:

1. Recrystallized silicon carbide has a high melting point and thermal stability, which can be used for a long time in a high temperature environment and is not prone to deformation and fracture.
2. Silicon carbide burner has good resistance to chemical corrosion and can resist the erosion of corrosive substances such as acid, alkali and salt.
3. Resic burner protective sleeve has good heat conductivity and can quickly transfer heat to the device, improving heat transfer efficiency.

