

Recrystallized silicon carbide ceramic roller for kiln

■ Introduction:

Recrystallized silicon carbide ceramic roller for kiln is a high temperature ceramic roller used in high temperature industrial equipment such as sintering and drying furnaces. Recrystallized silicon carbide ceramic roller for kiln is made of high purity silicon carbide powder and is treated with high temperature sintering and recrystallization, giving it extremely high temperature resistance, corrosion resistance and wear resistance. Compared with the traditional roller material, Recrystallized silicon carbide ceramic roller for kiln has longer service life and higher production efficiency, and can greatly reduce the production cost and maintenance cost.

■ 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 roller can run stably at high temperature for a long time, resist thermal shock and thermal stress, and is not easy to deformation and rupture.
2. RSIC tube for kiln can resist acid, alkali and other corrosive substances erosion, long service life.
3. Silicon carbide rollers has high surface hardness, not easy to wear, long service life.
4. High temperature resistant SiC rollers has long service life, reduce the number of replacement and maintenance, improve production efficiency.

