

Recrystallized silicon carbide ceramic square beam tube

■ Introduction:

Recrystallized Silicon Carbide ceramic square beam tube is a fine grained, self-bonded silicon carbide composition. Re-SiC, produced by sintering fine SiC grain itself at very high temperature, has very high purity, 99% SiC composition. Suitable to apply firing raw materials or products which need to avoid contamination. Used as Silicon carbide kiln furniture beam and plate etc.

■ 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)

■ Features:

- Recrystallized silicon carbide square beam has excellent Thermal Shock Characteristics
- Silicon carbide square beam has lower Mass...Faster Firing Cycles
- There are no Shrinkage
- Custom Designs To Suit Your Specific Needs
- refractory SiC tube has excellent Oxidation Resistance
- Maximum Use Temperature to 1600 ° C

■ Benefits:

- High Temperature Strength
- Saves Significant Operating Costs

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- Excellent and Tight Dimensional Control
- Unique Designs to Limit Inventory of Multiple Items
- Longer Useful Operating Life Between Rebuilds
- High Abrasion Resistance

