

■ **Introduction of RBSiC silicon carbide kiln furniture supportor:**

RBSiC (Reaction Bonded Silicon Carbide) kiln furniture supports are used in high temperature furnaces for firing of ceramics, glass, and other materials. They are made from a mixture of silicon carbide powder, carbon, and a small amount of binder, which is then formed into the desired shape and fired at high temperatures to create a dense, strong, and highly heat-resistant material.

■ **Technical data sheet of RBSiC silicon carbide kiln furniture supportor:**

Item	Unit	Data
Temperature of application	°C	1380°C
Density	G/cm3	>3.02
Open porosity	%	<0.1
Bending strength	Mpa	250 (20°C)
	MPa	280 (1200°C)
Modulus of elasticity	GPa	330 (20°C)
	GPa	300 (1200°C)
Thermal conductivity	W/m.k	45 (1200°C)
Coefficient of thermal expansion	K-1 ×10-6	4.5
Rigidity	/	13
Acid-proof alkaline	/	excellent

■ **Advantages of RBSiC silicon carbide kiln furniture supportor:**

- (1) RBSiC silicon carbide kiln furniture supportor are ideal for use in high temperature applications due to their excellent thermal shock resistance, high strength, and resistance to deformation at high temperatures.
- (2) RBSiC silicon carbide kiln furniture supportor are also chemically inert and resistant to corrosion, making them ideal for use in harsh environments.
- (3) Silicon carbide supportor are available in a wide range of sizes and shapes, including batts, plates, setters, and supports.
- (4) Reaction bonded silicon carbide kiln furniture can be custom designed and manufactured to meet specific customer requirements, and are widely used in the ceramics, glass, and other high temperature industries.

