

■ **Introduction of reaction bonded Silicon carbide ceramic shed board:**

Reaction bonded silicon carbide ceramic shed board is a type of ceramic material that is formed by reacting silicon with a carbon source, such as graphite, at high temperatures. The resulting material is a dense and hard ceramic that has excellent thermal and mechanical properties.

The shed board is commonly used in industrial applications where high temperatures, corrosive environments, and mechanical stress are present. It is also used in the semiconductor industry for manufacturing wafer carriers and other high-precision components.

■ **Technical data sheet of reaction bonded Silicon carbide ceramic shed board:**

Item	Unit	Data
Temperature of application	°C	1380°C
Density	G/cm <sup>3</sup>	>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 reaction bonded Silicon carbide ceramic shed board:**

- (1) Some of the properties of Silicon carbide slide push board include high thermal conductivity, low thermal expansion, excellent wear resistance, and high strength.
- (2) Rbsic Silicon Carbide shed Board is also highly resistant to acid and alkali corrosion, making it ideal for use in harsh chemical environments.
- (3) Silicon Carbide ceramic Shed Plate is a highly durable and reliable material that is well-suited for a wide range of industrial and manufacturing applications.

