

■ **Introduction of Silicon carbide kiln furniture Carborundum sagger:**

Silicon carbide kiln furniture, also known as carborundum sagger, is a type of ceramic product used in high temperature applications such as firing ceramics, glass, and metals. Silicon carbide kiln furniture Carborundum sagger is made from silicon carbide, a compound of silicon and carbon, which has excellent thermal and mechanical properties.

■ **Technical data sheet of Silicon carbide kiln furniture Carborundum sagger:**

Item	Unit	Data
Temperature of application	°C	1380°C
Density	G/cm ³	>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 Silicon carbide kiln furniture Carborundum sagger:**

- (1) RBSIC ceramic sagger has excellent thermal and mechanical properties.
- (2) Silicon Carbide Ceramic Carborundum Sagger is highly resistant to thermal shock, abrasion, and corrosion, making it ideal for use in harsh industrial environments.
- (3) Reaction bonded Silicon carbide Sagger is commonly used in the production of ceramics, such as sanitary ware, tableware, and refractories, as well as in the metalworking industry for sintering, annealing, and heat treatment processes.

