

■ **Introduction:**

The Oxide bond silicon square beam is a high temperature resistance, wear resistance ceramic material made from alumina and silicon carbide powder. Square beam for kiln refractory has great mechanical strength, high temperature stability etc, suitable for high temperature mechanical support, transmission and positioning and other fields. The product has a wide range of applications, such as metallurgy, chemical, electric power, ceramics and other industries.

■ **Technical data sheet:**

Item	Unit	Technical Data
SiC Content	%	≥ 90
Max. Service Temperature	°C	≥ 1500
Refractoriness	SK	≥ 39
Refractoriness Under Load	°C	≥ 1750
Density	G/cm ³	2.70-2.75
Open porosity	%	7-8
Bending strength	Kg/cm ²	500(20°C)
	Kg/cm ²	550 (1200°C)
Thermal conductivity (1000C)	Kcal/m.hr.C	13.5- 14.5
Thermal expansion(1000C)	%	0.42-0.48

■ **Advantages:**

- 1.High temperature stability: square beam for kiln refractory has excellent high temperature stability, can be used stably in high temperature environment for a long time.
2. High strength: The strength of kiln refractory Oxide silicon beam is high, can bear large load, suitable for high load working environment.
- 3.Good electrical insulation performance: Oxide bond silicon for furnace kiln has good electrical insulation performance, suitable for electronic, electrical and other fields of application.

