

## Heat-Resistant Silicon Carbide Plates Available From Factory SiC SSiC, NSiC, RSiC Refractory Plate

Our Product Introduction

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### Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: SiC SSiC, NSiC, RSiC
- Minimum Order Quantity: 20 pieces
- Price: \$0.97 - \$4.84
- Packaging Details: Packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000 tons / month



### Product Specification

- Highlight: Factory Silicon Carbide Plates, Refractory Silicon Carbide Plates, Heat Resistant Silicon Carbide Plates



### More Images



### Product Description

#### Product Description of Heat-Resistant Silicon Carbide Plates Available from Factory SSiC, NSiC, RBSiC Refractory Plate Available

Our silicon carbide plates utilize high-purity silicon carbide (SiC) and industrial silicon powder as key materials. They are shaped by vibration and undergo high-temperature sintering for durability.

Products such as silicon carbide plates, bricks, sheds, brackets, and custom shapes, made primarily from silicon carbide, showcase remarkable characteristics including high strength, hardness, and excellent resistance to high-temperature deformation. They also feature rapid heat conduction and oxidation resistance, contributing to an extended service life.

Our Product Introduction



#### Features of Heat-Resistant Silicon Carbide Plates

1. Good thermal conductivity
2. Good high temperature strength
3. Wear resistant and erosion resistant
4. Good thermal shock resistance
5. Good corrosion resistance
6. Good oxidation resistance

#### Applications of Rongsheng Silicon Carbide Plates

Used in the non-ferrous metal smelting sector, as well as in the rotary kiln openings for ceramics, enamel, and cement, along with glass annealing furnaces and various types of high-temperature furnaces.

Lining for blast furnaces, aluminum electrolytic cells, glass tanks, structural ceramics, sanitary ceramics, domestic ceramics, and refractory materials for electrical porcelain in the powder metallurgy industry.

Industrial ceramic components such as bearing plates, pushing boards, saggars; muff plates for annealing furnaces; linings and ignitors for circulating fluidized bed boilers (CFBB); and linings for waste incinerators, heat treatment electric furnaces, soaking pit furnaces, and more.

#### Product Specifications of Heat-Resistant Silicon Carbide Plates

Properties Type	Units	Silicon carbide Material			
		SiC		SiSiC	NSiC
Chemical composition	SiC%	89	87	92	70
	SiO <sub>2</sub> %	5	6	-	Si <sub>3</sub> N <sub>4</sub> 28
	Al <sub>2</sub> O <sub>3</sub> %	1.0	2.0	-	-
Bulk Density	g/cm <sup>3</sup>	2.85	2.8	3.01	2.8
Apparent porosity	%	12	14	0.1	12
M.O.R.@20	MPa	50	48	260	180
M.O.R.@1300	MPa	58	56	280	185
C.T.E.@20 -1000	10 <sup>-6</sup> K <sup>-1</sup>	4.8	4.2	4.5	4.7
C.C.S	MPa	100	90	900	500
Thermal shock resistance	1	5	5	5	5
Max working temperature		1450	1420	1300	1500
application	Used in ceramic shuttle kiln, tunnel kiln and roller kiln, Kiln furniture.				



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