

High Durability Silicon Carbide Wear-Resistant Ceramic Board and Si3N4 Silicon Nitride Ceramic Plate

Our Product Introduction

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Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Sic, SiSiC, 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: Si3N4 Silicon Nitride Ceramic Plate, High Durability Silicon Carbide Board, Wear Resistant Silicon Carbide Board



More Images



Product Description

Product Description of High Durability Silicon Carbide Wear-Resistant Ceramic Board and Si3N4 Silicon Nitride Ceramic Plate

The silicon carbide plates are constructed using high-purity silicon carbide (SiC) and industrial silicon powder as the main ingredients. They are shaped through vibration and produced using high-temperature sintering techniques.

Silicon carbide plates, along with silicon carbide bricks, sheds, brackets, and specially-shaped components, leverage silicon carbide as the primary raw material. These products not only exhibit the inherent properties of high strength and hardness but also feature excellent refractoriness under load, rapid heat conduction, and oxidation resistance. They maintain structural integrity without significant shrinkage or deformation at elevated temperatures, ensuring a long operational lifespan.

Our Product Introduction



Features of Wear-resistant Silicon Carbide Ceramic Board

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

Product Applications of Silicon Carbide Plate

1. Non-ferrous metal smelting industry, ceramic, enamel and cement rotary kiln mouth, as well as glass annealing furnace and various kind of high temperature furnace.
2. Blast furnace lining, the lining of aluminium electrolytic bath, glass tank, structural ceramics, sanitary ceramics, domestic ceramics, electrotechnical porcelain refractory material, sinter powder metal industry.
3. Industrial ceramics bearing plate burning, pushing board, sagger; muff plate of annealing furnace; lining and ignitor of CFBB; lining of garbage incinerators, heat treatment electric heating furnace, soaking pit furnace etc.

Product Specification of Silicon Carbide Plate

Properties Type	Units	Silicon carbide Material			
		SiC		SiSiC	NSiC
Chemical composition	SiC%	89	87	92	70
	SiO ₂ %	5	6	-	Si ₃ N ₄ 28
	Al ₂ O ₃ %	1.0	2.0	-	-
Bulk Density	g/cm ³	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 ⁻⁶ K ⁻¹	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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