

## High Purity Furnace Refractory Bricks Silicon Carbide Bricks For Furnaces

Our Product Introduction

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### Basic Information

- Place of Origin: Zhengzhou ,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Clay, Mullite, SiO<sub>2</sub>, Si<sub>3</sub>N<sub>4</sub>, Sialon, β-SiC, R-SiC
- Minimum Order Quantity: 1 Ton
- Price: 200-800USD
- Packaging Details: packed on wooden pallets, with water-proof cover, and tightened with plastic/steel bandages
- Delivery Time: 20-30DAYS
- Payment Terms: TT; L/C



### Product Specification

- Abrasion Resistance: High
- Chemical Resistance: High
- Color: Red
- Compressive Strength: High
- Density: High
- Firing Temperature: High
- Material: High-grade Refractory Clay
- Porosity: Low
- Refractoriness: High
- Shape: Brick
- Size: Standard
- Softening Point: High
- Thermal Conductivity: Low
- Thermal Expansion: Low
- Thermal Shock Resistance: High

Our Product Introduction

### Product Description

Customized Production Of High Purity Silicon Carbide Bricks For Furnaces

#### Description of of Silicon Carbide Brick

Silicon carbide bricks are refractory products made of silicon carbide as the main raw material. Silicon carbide content is 72%~99%. Generally, black silicon carbide (with more than 96% SiC content) is used as raw material, with binder (or without binder) added, and is prepared through batching, mixing, molding, firing and other processes. The main crystalline phase is silicon carbide. The main varieties are oxide bonded silicon carbide bricks, carbon bonded silicon carbide bricks, nitride bonded silicon carbide bricks, self bonded silicon carbide bricks, recrystallized silicon carbide bricks and semi silicon carbide bricks.

#### Features of Silicon Carbide Brick

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 Silicon Carbide Brick:

Silicon carbide bricks find applications in industries such as metallurgy, ceramics, glass, cement, and other high-temperature processes. They are used in areas of furnaces, kilns, and other high-temperature equipment.

#### Technical Parameter of Silicon Carbide Brick:

Item	Bonding Type							
	Clay	Mullite	SiO <sub>2</sub>	Si <sub>3</sub> N <sub>4</sub>	Sialon	β-SiC	R-SiC	Silic
SiC %	85	70	≥90	≥72	≥71	≥94	≥99	
Si <sub>3</sub> N <sub>4</sub> %	/	/	/	≥20	/	/	/	
Al <sub>2</sub> O <sub>3</sub> %	/	/	/	/	≥5	/	/	
Si %	/	/	/	/	≥5.5(N)	/	/	
Bulk Density g/cm <sup>3</sup>	2.5~2.6	2.55~2.65	2.6~2.7	≥2.65	≥2.65	≥2.63	≥2.65	
Apparent porosity %	≤20	≤16	≤15	≤16	≤16	≤17	≤15	
Flexural strength at room temperature MPa	≥20	≥25	≥25	≥45	≥45	≥30	≥90	
Flexural strength at high temperature MPa 1400	/	/	/	≥45	≥45	≥30	≥90	
Cold Crushing strength MPa	≥100	≥100	≥120	≥160	≥150	≥140	≥300	



**Henan Rongsheng Xinwei New Materials Research Institute Co., Ltd**



+86-18538509097



Jackyhan2023@outlook.com



bricksrefractory.com

11th Floors, Building 6, China Central Electronic Commerce Port, Daxue Road, Zhengzhou, Henan, China