

Rongsheng High Refractoriness Sillimanite Refractory Brick For Glass Kiln

Our Product Introduction

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Basic Information

- Place of Origin: Zhengzhou, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Rongsheng
- Minimum Order Quantity: 1 Ton
- Price: 200-800 USD
- 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

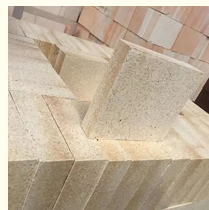


Product Specification

- Features: High Working Temperature
- Porosity: High, Medium, Low
- Model Number: As Required
- Usage: Lining Of Industrial Furnaces
- Volume Density: $\geq 2.20\text{g/cm}^3$
- Permanent Linear Change: Low
- Apparent Porosity: 16%
- Residual Quartz: $\leq 1.0\%$
- Resistance To Spalling: Good
- Service Temperature: High
- Softening Temperature: High/Medium/Low
- Application: Furnace Lining
- Refractoriness Under Load: 1300
- Weight: As Designed
- Shape Type: Standard Straight Shape



More Images



Product Description

Product Description of High Refractoriness Sillimanite Refractory Brick For Glass Kiln

Sillimanite bricks are a great choice for glass kilns because of their high heat resistance, excellent thermal shock stability, and good chemical resistance. They are made from a naturally occurring mineral called sillimanite, which is a form of aluminum silicate. Sillimanite bricks are typically used in the upper structure, cover plate, and charging area of glass kilns.

Features of Rongsheng High Refractoriness Sillimanite Refractory Brick For Glass Kiln

1.High Temperature Stability

Rongsheng refractory resistance is the highest among general refractory bricks, usually above 2000 .

2.Resistance To Corrosion

Which is important in industrial environments with harsh chemicals and gases.

3.Strong Slag Resistance

Rongsheng Refractory because of its good chemical structure ,it has super slag resistance and can resist slag ,metal melt, furnace dust and sinter surface.

4.Customized

Rongsheng refractory bricks can be shaped and customized to suit various furnace configurations, offering flexibility and adaptability in challenging industrial settings.

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Benefits of Using Sillimanite Bricks in Glass Kilns:

1. High heat resistance: Sillimanite bricks can withstand temperatures up to 1830°C (3326°F), which is well above the temperatures required for most glass melting applications.

2. Excellent thermal shock stability: Sillimanite bricks are resistant to cracking and spalling caused by rapid temperature changes. This is important in glass kilns, where the temperature can fluctuate significantly during the firing process.

Good chemical resistance: Sillimanite bricks are resistant to attack by most glasses and other molten materials. This helps to extend the life of the kiln lining.

3. Low thermal expansion: Sillimanite bricks have a low thermal expansion coefficient, which means that they will not expand significantly as the temperature increases. This helps to prevent the formation of cracks in the kiln lining.

If you are looking for a durable and reliable material for your glass kiln, sillimanite bricks are a great option. They can help to improve the efficiency and lifespan of your kiln.

Application of Rongsheng High Refractoriness Sillimanite Refractory Brick For Glass Kiln

Glass Industry:

Glass Melting Furnace Linings: Sillimanite bricks are champions for lining glass melting furnaces, particularly the crown, sidewalls, and forehearth. Their ability to handle high temperatures and resist chemical attack from molten glass makes them ideal.

Feeders, Forehearth, and Conduits: These critical components that channel molten glass benefit from sillimanite's resistance to heat, corrosion, and thermal shock, ensuring smooth glass flow.

Metal Industries:

Blast Furnace Linings: Sillimanite bricks can be found lining large-scale blast furnaces in the iron and steel industry. Their wear resistance, heat tolerance, and corrosion resistance contribute to a longer furnace lifespan.

Non-Ferrous Metal Applications: Sillimanite's ability to handle direct contact with liquid metal makes it suitable for use in furnaces for processing non-ferrous metals.

Other Applications:

Ceramic Kiln Furniture: Sillimanite bricks are used as kiln furniture within ceramic kilns, providing support for ceramic pieces during high-temperature firing.

Cement Industry: Sillimanite bricks find use in cement kilns, particularly in areas exposed to high temperatures and fluctuating temperatures.

Thermal Waste Recycling: Due to their thermal shock resistance, sillimanite bricks can be used in high-temperature areas of waste incineration systems.

Overall, sillimanite bricks are employed in any industrial setting that demands exceptional resistance to heat, corrosion, and thermal shock. Their versatility makes them valuable in various high-temperature processes.

Product Specification of Rongsheng High Refractoriness Sillimanite Refractory Brick For Glass Kiln

No.	Item	Index	
		Pressed Type	C
1	Chemical Composition	Al ₂ O ₃ / %	≥ 60
2		SiO ₂ / %	≤ 35
3		Fe ₂ O ₃ / %	≤ 1.0
4	Physical Properties	Bulk Density / (g/cm ³)	≥ 2.40
5		Apparent Porosity / %	≤ 20.0
6		Cold Crushing Strength / MPa	≥ 75.0
7		Refractoriness Under Load (0.2MPa, T0.6) /	≥ 1550
8		Thermal Shock Resistance (1100 , Water Cooling) / cycles	≥ 10
9		Permanent Linear Change (1400 x2h) / %	-0.2 ~ +0.2



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