Customizable Beta Alumina Refractory Bricks For Glass Furnaces

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou,China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: Rongsheng
- 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: 10-20 Days
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month

Product Specification

- Highlight: **Beta Alumina Refractory Bricks**, **Glass Furnaces Beta Alumina Refractory Bricks** , **Glass Furnaces Refractory Bricks**

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Product Description

Product Description of Beta Alumina Refractory Bricks For Glass Furnaces
Fused Alumina Bricks (Beta Alumina Bricks) are primarily composed of the β-Al_2O_3 crystalline phase, with a content of approximately 50%. These bricks have a dense crystalline structure and exhibit excellent corrosion resistance to molten glass at temperatures below 1350°C. As a result, they are widely used in the working pool and rear sections of glass furnaces. Common applications include flow channels, lip bricks, and gate bricks.

Due to the saturation of Al_2O_3 by sodium above 2000°C, beta alumina bricks demonstrate exceptional stability against alkali vapors at high temperatures. Additionally, their thermal shock resistance is among the best of fused cast bricks. However, when in contact with SiO_2, the Na_2O in beta alumina bricks reacts with SiO_2, causing β-Al_2O_3 to convert to α-Al_2O_3, which results in significant volume shrinkage. This may lead to cracks and damage to the bricks. Therefore, these bricks are only suitable for areas away from SiO_2-containing dust, such as the upper structure of the working pool, breast walls near the burner ports, small furnace openings, and hanging walls.

Physical and Chemical Properties of Beta Alumina Refractory Bricks for Glass Furnaces:

Item		FUSED CAST ALUMINA	FUSED CAST ALUMINA	FUSED CA
		a-b Alumina TY-M	a- Alumina TY-A	b- Alum
Chemical Composition %	Al2O3	94	98.5	
	SiO2	1	0.4	
	NaO2	4	0.9	
	Other oxides	1	0.2	
Crystallographic Analysis %	a-Al2O3	44	90	
	b-Al2O3	55	4	
	Vitreous Phase	1	6	

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