

## Customizable Beta Alumina Refractory Bricks For Glass Furnaces

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: 200-800USD
- 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  $\beta$ - $\text{Al}_2\text{O}_3$  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  $\text{Al}_2\text{O}_3$  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  $\text{SiO}_2$ , the  $\text{Na}_2\text{O}$  in beta alumina bricks reacts with  $\text{SiO}_2$ , causing  $\beta$ - $\text{Al}_2\text{O}_3$  to convert to  $\alpha$ - $\text{Al}_2\text{O}_3$ , 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  $\text{SiO}_2$ -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- Alun
Chemical Composition %	Al <sub>2</sub> O <sub>3</sub>	94	98.5	
	SiO <sub>2</sub>	1	0.4	
	NaO <sub>2</sub>	4	0.9	(
	Other oxides	1	0.2	(
Crystallographic Analysis %	a-Al <sub>2</sub> O <sub>3</sub>	44	90	
	b-Al <sub>2</sub> O <sub>3</sub>	55	4	
	Vitreous Phase	1	6	



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