High-Temperature Stability With Zero Expansion Silica Bricks High Quality Furnace Refractory Brick For Glass Kiln Repair

Packed on wooden pallets, with water-proof cover, and tightened with plastic/steel

Zhengzhou ,China

Rongsheng Xinwei

ISO9001

1 Ton

TT; L/C

2000 tons/month

Rongsheng

200-800 USD

Basic Information

- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity:
- Price:
- Packaging Details:
- Delivery Time: 10-20 Days
- Payment Terms:
 - Cumply Ability
- Supply Ability:



Product Specification

Material:	Fireclay
• Temperature Resistance:	Up To 1700°C
 Porosity: 	≤20%
• Surface:	Smooth, Rough, Etc.
 Softening Point: 	High
• Fe2O3 Content:	≤ 2%
Refractoriness Under Load	l: High, Medium, Low
 Volume Density: 	≥2.20g/cm3
Alkali Resistance:	≥85%
Acid Resistance:	Good
• Feature:	High Refractoriness
Packing:	Wooden Pallets Or Cartons
Cold Crushing Strength:	>50Mpa
Application:	High Temperature Furnaces
Model:	As Required

Introduction to High-Temperature Stability With Zero Expansion Silica Bricks High Quality Furnace Refractory Brick For Glass Kiln Repair

Zero Expansion Silica Bricks are a special type of silica refractory material with an extremely low thermal expansion coefficient, making them almost dimensionally stable even under high temperatures. This characteristic makes them particularly suitable for repair and maintenance work in high-temperature environments like glass kilns. Here are the key features and applications of zero expansion silica bricks in the context of glass kiln repair:



Key Features of Zero Expansion Silica Bricks for Glass Kiln Repair

Low Thermal Expansion Coefficient: These bricks exhibit very low thermal expansion at high temperatures, maintaining dimensional stability and preventing cracks and damage due to thermal expansion.

Excellent High-Temperature Performance: They can withstand prolonged exposure to high temperatures, maintaining their integrity and performance.

Superior Thermal Shock Resistance: The bricks can endure rapid temperature changes, reducing the risk of damage due to thermal shock.

Chemical Stability: They are resistant to acid and alkali corrosion, offering strong chemical resistance.

High Mechanical Strength: They can withstand the mechanical stresses typical in the high-temperature environments of glass kilns.

Applications in Glass Kiln Repair

Zero expansion silica bricks are primarily used in the following areas during glass kiln repair:

Crown (Kiln Roof): The crown of a glass kiln operates in a high-temperature environment. Using zero expansion silica bricks helps prevent cracking caused by thermal expansion.

Sidewalls: The sidewalls must withstand high temperatures and mechanical stress. The high refractoriness and low expansion of these bricks ensure the stability and durability of the sidewalls.

Around Burners: The area around burners experiences significant temperature fluctuations. Zero expansion silica bricks' thermal shock resistance helps withstand these fluctuations effectively.

Hot Repairs: During operational periods, hot repairs can be performed using zero expansion silica bricks without waiting for the kiln to cool down, significantly improving repair efficiency and production continuity.

Advantages of Zero Expansion Silica Bricks For Glass Kiln Repair

Reduced Downtime: Their low expansion and high thermal shock resistance allow for hot repairs, minimizing downtime and increasing production efficiency.

Extended Kiln Life: Using high-performance zero expansion silica bricks can significantly extend the overall service life of the glass kiln, reducing maintenance costs.

Improved Product Quality: Stable kiln structures and high-quality refractory materials contribute to the production of higherquality glass products.

Product Specifications of Zero Expansion Silica Bricks

Product Specifications of Zero Expansion Silica Bricks							
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		FS-97	PS98	FS-99			
w(SiO 2)/%	μ0	2	97.0	98.0	98.5		
	0		1.0				
w(AI2O3)/%	μ0	≤	0.50	0.30	0.20		
	0		0.10				
w(Fe2O3)/%	μ0	≤	0.30	0.20	0.10		
	0		0.05				
Bulk Density/(g/cm ³)	μ0	2	1.75	1.80	1.85		
	0		0.02				
Apparent Porosity/%	μ0	≤	22.0	20.0	18.0		
	0		1.5				

Cold Crushing Strength/MPa	μ0	2	25	30	35
	0		10		
0.2MPa refractoriness under load	μ0	2	1500	1600	1650
(RUL)(Tao)/°C	0			15	
Linear Expansion Rate(1000°C)/%		_ ≤	0.20		
	0		0.10		
thermal shock resistance(1100°C,water-cooled)/time		2	30	30	30

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