Best Price Refractory Fireclay High Performance Low Porosity Fireclay Bricks For Glass Kiln

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Rongsheng Xinwei
- Certification: ISO9001
- Model Number: DN-11, DN-14, DN-17
- 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: 2000 tons/month

Product Specification

- Texture: Smooth
- Durability: Long-lasting
- Mgo Content: 0.5-1.5%
- Moisture Resistance: High
- Weight: 2 Kg
- Efractoriness: 1750
- Frost Resistance: Yes
- Al2O3 Content: ≥38%
- Installation: Easy
- Alkali Resistance: High
- Surface: Smooth
- Flexural Strength: High
- Size: 230x114x65mm
- Maintenance: Low
- Color: Red

More Images

Our Product Introduction

Product Description

Product Description of Rongsheng Best Price Refractory Fireclay High Performance Low Porosity Fireclay Bricks For Glass Kiln

Fire clay bricks contain 30-50% Al2O3. During production, clay chamotte is first mixed with refractory clay powder, then combined with clay aggregate to form a dry mud, which is then shaped under high pressure and sintered at approximately 1400°C. At high temperatures, fire clay bricks exhibit weak acidity and have limited resistance to alkaline slag erosion. However, as the Al2O3 content increases, their thermal stability surpasses that of silica bricks and magnesia bricks.

Product Features of Rongsheng Best Price High Performance Low Porosity Fireclay Bricks For Glass Kiln

Low porosity fireclay bricks offer several key features that make them ideal for glass kilns:

1. Low Porosity:
This is the defining characteristic. With minimal voids or holes, they resist penetration by molten glass and other corrosive materials. This extends the lifespan of the kiln lining and reduces the risk of glass contamination.

2. High Refractoriness:
They can withstand extremely high temperatures (around 1400-1600°C) without melting or deforming. This is crucial as glass kilns operate at very high temperatures for melting the glass.

3. Strong Resistance to Wear and Erosion:
The dense structure minimizes wear and tear from molten glass flow and harsh chemical environments within the kiln. This translates to better durability and longer service life for the kiln lining.

4. Good Thermal Shock Resistance:
They can withstand rapid temperature changes without cracking or spalling. This is important for maintaining consistent temperatures within the kiln and preventing structural damage.

5. Good Thermal Conductivity:
They efficiently conduct heat, ensuring even heat distribution throughout the glass melt. This contributes to efficient glass melting and minimizes temperature variations within the kiln.

6. High Mechanical Strength:
The dense structure provides good mechanical strength, allowing the bricks to handle the weight of the glass and other materials within the kiln without collapsing.

7. Good Chemical Resistance:
They resist chemical attack from molten glass and other chemicals present in the kiln environment. This prevents degradation and maintains the integrity of the kiln lining.

In summary, low porosity fireclay bricks offer a combination of high-temperature resistance, wear resistance, thermal stability, good heat transfer, and strong structure, making them a reliable and long-lasting choice for glass kiln applications.

Product Application of Low Porosity Fireclay Bricks For Glass Kiln:
1) Cement and other building materials industry kiln back insulation;
2) Petrochemical, metallurgical, ceramics, glass industry, the furnace lining insulation;
3)Heat treatment furnace backlash insulation;
4)Non-ferrous metal industry back insulation;
5)High temperature reaction, heating equipment back insulation insulation

Product Parameters of Low Porosity Fireclay Bricks For Glass Kiln

Item			**Indicator**		
			DN-11	DN-14	DN-17
Chemical Composition	Al2O3 / %	μ ≥	47	45	42
		σ ≤	1.0	1.0	1.0
	Fe2O3 / %	μ ≤	1.2	1.5	1.8
		σ ≤	0.2	0.2	0.2
Physical Properties	**Bulk Density / (g/cm³)**	μ ≥	2.40	2.34	2.26
		σ ≤	0.02	0.02	0.02
	Apparent Porosity / %	μ ≤	11	14	17
		σ ≤	1.0	1.0	1.0
	Compressive Strength / MPa	μ ≥	80	55	50
		σ ≥	10	10	10
		x_min	70	55	40
	Refractoriness Under Load T0.6 /	μ ≥	1520	1470	1430
		σ ≤	10	10	10
	Permanent Linear Change 1400 ×2h	L-U	-	+0.1-0.2	
		σ	-	0.02	
	Permanent Linear Change 1500 ×2h	L-U	+0.1-0.2	-	
		σ	0.02		

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