High Temp Thermal Insulation Brick Alumina Bubble Bricks Hollow Ball Refractory Brick

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou, Henan, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO Certification
- Model Number: LQZ99-1.4, LQZ99-1.6, LQZ99-1.8
- 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: 20-30DAYS
- Payment Terms: TT; L/C
- Supply Ability: 2000tons /month

Product Specification

- Acid Resistance: Good
- Alkali Resistance: Good
- Chemical Resistance: Good
- Color: White
- Compressive Strength: 20MPa
- Density: 1.2g/cm3
- Flexural Strength: 2.5MPa
- Heat Resistance: Good
- Material: Ceramic
- Shape: Rectangular
- Size: Standard
- Thermal Conductivity: 0.2W/m.K
- Thermal Shock Resistance: Good
- Thickness: 20mm
- Water Absorption: 3%

Our Product Introduction

Product Description

Alumina Bubble Bricks Alumina Hollow Ball Refractory Brick For High Temperature Furnace With Stable High-Temp Performance

The alumina bubble brick also called alumina hollow ball brick. The anti-stripping alumina bubble brick produced by our company is made of alumina hollow balls as the main raw material, high-performance micropowder as the additive, and organic material as the temporary binder, which is fired at high temperature in a shuttle kiln. The product contains a large number of closed pores, has the characteristics of light weight, high temperature resistance, good insulation performance, small shrinkage after re-burning, and excellent thermal shock resistance. It also has strong resistance to corrosive gases and slag.

The products can greatly improve the thermal efficiency of the kiln, shorten the production cycle, reduce the weight of the kiln body, and realize energy saving and consumption reduction. Products can directly contact the flame, suitable for cracking furnaces, hot blast furnaces, heating furnaces, tunnel kilns, push kilns, crucible furnaces and various electric furnaces, electric kiln linings, widely used in metallurgy, refractories, light industry, chemical industry, Ceramics, glass, electronics and other industries. The dimensions, physical and chemical indexes, and service life of the products have reached or exceeded the level of similar products at home and abroad.

Features of Alumina Bubble Bricks
Alumina hollow ball bricks have the characteristics of light weight, high temperature resistance, good thermal insulation performance, small shrinkage after re-fire, excellent thermal shock resistance, etc., and also have strong resistance to corrosive gases and slag. The products can greatly improve the thermal efficiency of the kiln, shorten the production cycle, reduce the weight of the kiln body, and realize energy saving and consumption reduction.

Advantages of alumina hollow ball brick

Obvious effects will be achieved for reducing the weight of the furnace body, transforming the structure, saving materials, and saving energy.
1. High operating temperature:
It can reach above 1750 degrees, with good thermal stability. The reheating line has a small change rate and can be used for a longer time.

2. Optimize the structure and reduce the weight of the furnace body:
The bulk density of heavy bricks currently used with high temperature resistant materials is 2.6-3.0g/cm3, while alumina hollow ball bricks are only 1.3~1.5g/cm3. For the same volume of one cubic meter, the use of alumina hollow ball bricks can reduce 1.1- 1.7 tons weight.

3. Save materials:
To reach the same operating temperature, the price of heavy bricks is equivalent to that of alumina hollow ball bricks, and considerable refractory materials are required for insulation. If alumina hollow ball bricks are used, 1.1-1.9 tons of heavy bricks can be saved per cubic meter, and 80% of refractory insulation materials can be saved.

4. Save energy:
Alumina hollow spheres have obvious thermal insulation properties and low thermal conductivity, which can achieve a good thermal insulation effect, reduce heat dissipation, improve thermal efficiency, and save energy. The energy saving effect can reach more than 30%.

Physical and chemical indicators of competitive price light weight Alumina bubble brick alumina hollow ball insulation brick:

Item	Index		
	LQZ99-1.4	LQZ99-1.6	LQ
Al_2O_3 %		≥99	
SiO_2 %		≤0.3	
Fe_2O_3 %		≤0.2	
Bulk density g/cm^3	1.3~1.5	1.5~1.7	1.
Cold Crush Strength MPa	≥6	≥10	
Thermal conductivity W/(m·K) Hot surface 1000	≤0.9	≤1.1	
Permanent Linear Change Rate % 1600 ×3h		±0.3	

Item	Index		
	LQZ95-1.4	LQZ95-1.6	LQ
Al_2O_3 %		≥95	
Fe_2O_3 %		≤0.2	
Bulk density g/cm^3	1.3~1.5	1.5~1.7	1.
Normal temperature compressive strength MPa	≥8	≥12	
Thermal Conductivity W/(m·K) hot face 1000	≤0.9	≤1.1	
Permanent Linear Change Rate % 1600 ×3h		±0.3	

Item	Index		
	LQZ90-1.4	LQZ90-1.6	LQ
Al_2O_3 %		≥90	
Fe_2O_3 %		≤0.2	
Bulk density g/cm^3	1.3~1.5	1.5~1.7	1.
Normal temperature compressive strength MPa	≥10	≥14	
Thermal Conductivity W/(m·K) Hot face 1000	≤0.9	≤1.1	
Permanent Linear Change Rate % 1600 ×3h		±0.3	

Henan Rongsheng Xinwei New Materials Research Institute Co., Ltd

+86-18538509097 Jackyhan2023@outlook.com bricksrefractory.com

11th Floors, Building 6, China Central Electronic Commerce Port, Daxue Road, Zhengzhou, Henan, China