Class A Nano Insulation Material Ultra Lightweight Alumina Bubble Brick

Our Product Introduction

Basic Information

- Place of Origin: Zhengzhou, Henan, China
- Brand Name: Rongsheng Xinwei
- Certification: ISO Certification
- Model Number: RS-KXQ 1
- 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

- Acoustic Insulation: ≥25dB
- Compression Strength: ≥200kPa
- Elongation: ≥200%
- Fire Rating: Class A
- Length: 20m-30m
- Material: Nano Insulation Material
- Peeling Strength: ≥2.5N/mm
- Tear Strength: ≥50N
- Temperature Resistance: -50 -150
- Tensile Strength: ≥200N/50mm
- Thermal Conductivity: 0.032-0.038 W/mK
- Thickness: 0.5mm-2mm
- Water Vapor Permeability: 0.02-0.03 G/m2·24h
- Weight: 50g/m2-200g/m2
- Width: 1m-1.5m

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Our Product Introduction

Product Description

Ultra-lightweight Alumina Bubble Brick

Compared to traditional alumina bubble bricks, our company's ultra-lightweight alumina bubble bricks have the following characteristics:

(1) Lower Bulk Density: Traditional 99% alumina bubble bricks have a bulk density of at least 1.5 g/cm³. In comparison, our ultra-lightweight bricks significantly reduce the weight of the furnace body, resulting in material, energy, and cost savings.

(2) Improved Thermal Stability: Our bricks exhibit better thermal shock stability compared to traditional alumina bubble bricks with a bulk density of 1.5 g/cm³ and an Al_2O_3 content of 99%.

(3) Extremely Low Thermal Conductivity: The thermal conductivity of our bricks is only 30% of that found in traditional products. At 400°C, the thermal conductivity of the hot surface for traditional alumina bubble bricks with a bulk density of 1.5 g/cm³ and Al_2O_3 content of 99% is 0.78 W/(m·K), while our company's bricks have a thermal conductivity of 0.26 W/(m·K) on the furnace hot side. This results in three times better thermal insulation compared to traditional bricks. Using our ultra-lightweight alumina bubble bricks allows for lower cold side temperatures, leading to greater energy savings, or the possibility

of making thinner insulation layers while maintaining the same required cold side temperature.

(4) Direct Use in Furnace Working Layer: Our bricks can be used directly in the working layer of the furnace and exhibit strong resistance to hydrogen fluoride erosion in the furnace for anode materials.

Parameter of Ultra-lightweight Alumina Bubble Brick

Item	RS-KXQ 1
BD. g/cm'	≤0.85
CCS. MPa	≥3
400°C TC. W/[m.K	≤0.26
PLC (1500°C*6).%	≤1.0
Al_2O_3	≥99%

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