

CCEFIRE® LHA Series Insulating Fire Brick

Description:

CCEFIRE® LHA Series Insulating Fire Brick is commonly known as high-aluminum heat insulating brick. Alumina content is 48% or more, lightweight refractory material mainly composed of mullite and corundum or glass phase. Its essential function is heat insulation, under normal operation usually do not contact directly with the temperature of the furnace. It is a kind of refractory brick, which is close to the furnace wall and has the function of heat insulation and heat preservation.

Technical data and Size:

CCEFIRE® LHA Series Insulating Fire Brick							
Item	LHA10	LHA09	LHA08	LHA07	LHA06	LHA05	LHA04
Al₂O₃	≥48%						
Fe₂O₃	≤2%						
Density (g/cm³)	1.0	0.9	0.8	0.7	0.6	0.5	0.4
Compressive strength (MPa)	4	3.5	3.0	2.5	2.0	1.5	0.8
Linear change Cx12h (%)≤	1400	1400	1400	1350	1350	1250	1250
Thermal conductivity W/(m.k) 350±25℃	0.5	0.45	0.35	0.35	0.3	0.25	0.2

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Raw Materials

Own large-scale ore base, professional mining equipment, and stricter selection of raw materials.

The incoming raw materials are tested first, and then the qualified raw materials are kept in a designated raw material warehouse to ensure their purity.

The raw materials of CCEFIRE insulation bricks have low impurity content with less than 1% oxides, such as iron and alkali metals. Therefore, CCEFIRE insulation bricks have high refractoriness, reaching 1760°C. The high aluminum content makes it maintain good performances in a reducing atmosphere.

Production Process

The fully automated batching system fully guarantees the stability of the raw material composition and better accuracy in raw material ratio.

With internationally advanced automated production lines of high-temp tunnel furnaces, shuttle furnaces, and rotary furnaces, the production processes from raw materials to finished products are under automatic computer-control, ensuring stable product quality.

Automated furnaces under stable temperature control produce CCEFIRE insulation bricks with thermal conductivity lower than 0.16w/m.k in an environment of 1000 °C, and they have excellent thermal insulation

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performance, less than 05% in the permanent linear change, stable quality, and longer service life.

Insulation bricks of various shapes are available according to designs. They have accurate sizes with the error controlled at +1mm and are convenient for customers to install.

Quality Control

Each shipment has a dedicated quality inspector, and a test report is provided prior to the departure of products from the factory to ensure the export quality of each shipment of CCEFIRE.

A third-party inspection (such as SGS, BV, etc.) is accepted.

Production is strictly in accordance with ASTM quality management system certification.

The outer packaging of each carton is made of five layers of kraft paper, and outer packaging + pallet,, suitable for long-distance transportation.

Application Performance

CCEFIRE insulation bricks have low thermal conductivity and good thermal insulation effects.

CCEFIRE insulation bricks have low thermal melting, and due to their low thermal conductivity, they accumulate very little heat energy, which leads to their remarkable energy-saving effects in intermittent operations.

CCEFIRE thermal insulation bricks have low impurity content, especially very low in iron and alkali metal oxide content, so they have high refractoriness. Their high aluminum content allows them to maintain good performance in a reducing atmosphere.

CCEFIRE insulation bricks have high thermal compressive strengths.

CCEFIRE thermal insulation bricks have accurate dimensions in appearance, which can speed up the construction speed, reduce the amount of refractory clay used, and ensure the strength and stability of the masonry, thereby extending the service life of the lining.

CCEFIRE insulation brick can be processed into special shapes to reduce the number of bricks and joints.

Based on the above advantages, CCEFIRE insulation bricks and fiber ropes are widely used in hot blast furnace top, blast furnaces' body and bottom, glass melting furnaces' regenerator, ceramic sintering furnaces, dead corner furnace lining of petroleum cracking system, and the lining of ceramic roller furnaces, electric porcelain drawer furnaces, glass crucible and various electric furnaces.