

CCEFIRE® DECOR Series Corundum Brick

Description:

CCEFIRE® DECOR Series Corundum brick is a kind of high aluminum brick that is used in special industries. Al₂O₃ content can be traced back to using high purity synthetic corundum like white melted AL₂O₃ and sliced Al₂O₃. Special refractory clay, activated aluminum oxide and high purity SiO₂ are all included in formula of producing corundum brick. We fire bricks under high temperature.

Technical data and Size:

CCEFIRE® DECOR Series Corundum Brick							
Item	DECOR90	DECOR95	DECOR90a	DECOR95a	DECOR98	DECOR99	C99E
Density(g/cm³)	(3.00)	(3.10)	(3.20)	(3.26)	(3.26)	(3.15)	(3.41)
Cold Crushing Strength (MPa)	80	92	100	103	82	90	117
Al₂O₃	> 90	95	90	95	98	>99	99.5
SiO₂	< 9.5	4.9	1.3	1.8	0.1	0.1	0.1
ZrO₂	---	---	3.5	3.6	1.8	---	---
(%)							

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 fire bricks have low impurity content with less than 1% oxides, such as iron and alkali metals. Therefore, CCEFIRE clay bricks have high refractoriness.

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, stable temperature control, low thermal conductivity of CCEFIRE insulation bricks, excellent thermal insulation performance, less than 05% in the permanent line change, stable quality, and longer service life.

Various shapes of clay bricks can be made according to designs. They have precise dimensions with an error of +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 refractory bricks are weakly acidic refractory materials with good thermal stability, so they are suitable for the lining of blast furnaces, hot blast furnaces, electric furnace top, blast furnaces, reverberatory furnaces, and rotary furnaces.