

## Corundum Brick

Firebird Corundum Bricks are made from high purity tabular alumina, fused alumina, sintered in high temperature shuttle kiln. The bricks possess characters of high density, high purity, low porosity, and good thermal shock resistance.

Firebird Corundum bricks can withstand corrosion attack in oxidizing atmospheres and highly reducing atmospheres. It can also withstand high temperature hydrogen attack.

Firebird Corundum Brick is available in standard brick sizes (straight, arches and wedges) as well as custom plates and shapes.

### Typical Application

Widely used in the industries such as fertilizer, electro ceramics, petrochemical, steel, foundry, alloy steel, refractories, etc. Typical application such as secondary reformer and gas generator lining, catalyst bed support, channel induction furnace, reheating furnace hearth, skid rails, saggars, etc.

### Typical Indexes

Grade		HA-993	HA-99	HA-90	HA-80
Al <sub>2</sub> O <sub>3</sub>	%	99.3	99	90	80
SiO <sub>2</sub>	%	≤0.2	≤0.3	≤8.5	≤18.5
Fe <sub>2</sub> O <sub>3</sub>	%	≤0.2	≤0.2	≤0.2	≤0.3
Bulk Density	g/cm <sup>3</sup>	≥3.25	≥3.25	≥3.1	≥2.9
Apparent Porosity	%	≤18	≤18	≤18	≤18
Cold Crushing Strength	MPa	≥100	≥100	≥120	≥120
Refractoriness under load (0.1 MPa, 0.6%)	°C	≥ 1700	≥ 1700	≥ 1700	≥ 1700
Reheating Linear Change (1600°C x8h)	%	≥-0.2	≥-0.2	≤0.2	≤0.2
Thermal expansion coefficient x10 <sup>-6</sup> Room temp. to 1300°C		8.1	8.1	8.1	7.6

All data above are average test results under standard procedure and are subjected to variation. Result should not be used for specification purpose or creating any contractual obligation. For more information on the safety application or materials, please contact with our sales engineer.

