

HIGH ALUMINA BRICK (HA-80)

VERSATILE REFRACTORY FOR HIGH-TEMPERATURE INDUSTRIAL APPLICATIONS

The **High Alumina Brick HA-80** is manufactured using carefully selected bauxite raw materials and sintered at high temperatures to ensure excellent **thermal stability, mechanical strength, and slag resistance**. With 80% Al_2O_3 content, this product is engineered for use across a broad range of high-temperature industrial applications, particularly where resistance to chemical attack and structural load are critical.

TECHNICAL SPECIFICATIONS

PROPERTY	HA-80
Al_2O_3 (%)	≥ 80
Fe_2O_3 (%)	≤ 2.5
Apparent Porosity (%)	≤ 22
Bulk Density (g/cm^3)	≥ 2.7
Cold Crushing Strength (MPa)	≥ 80
Modulus of Rupture at 1400°C (MPa)	≥ 9
Refractoriness Under Load (0.2 MPa, °C)	≥ 1550
Thermal Conductivity at 1000°C ($\text{W/m}\cdot\text{K}$)	1.5 – 2.1
Maximum Service Temperature (°C)	1700
Bond Type	Sintered Alumina

KEY APPLICATIONS

- Cement Preheaters & Coolers
- Iron & Steel Reheating Furnaces
- Incinerators and Boiler Linings
- Ceramic and Glass Furnace Walls
- Lime Shaft Kilns and Soaking Pits

PERFORMANCE CHARACTERISTICS

- High resistance to **slag attack, spalling, and abrasion**
- Stable performance across **cyclical heating** conditions
- Well-suited for both **oxidising and reducing atmospheres**
- Maintains compressive strength and dimensional stability at elevated temperatures

PACKAGING & SUPPLY

- Packed on heat-treated export pallets with shrink-wrap protection
- Available in standard arch, wedge, and rectangular shapes
- Full QA documentation and batch traceability provided

INSTALLATION NOTES

- Lay using alumina-rich mortar for maximum adhesion
- Ensure proper bedding and joint alignment to prevent uneven stress
- Ideal for both cold and hot repair interventions

ENVIRONMENTAL & SAFETY NOTES

- Manufactured in ISO 9001 and ISO 14001 certified facilities
- Contains no asbestos or hazardous additives
- Long service life contributes to reduced waste and energy savings



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