

Product Data Sheet

High Alumina Bricks

Description

Description	High Alumina Bricks are shaped refractories with a high aluminium-oxide content, manufactured from calcined bauxite and other alumina-rich raw materials. They offer excellent resistance to high temperatures, thermal shock, and chemical attack, with performance improving as Al_2O_3 content rises.
Applications	Used in the steel, cement, and glass industries, in blast furnaces, reheating furnaces, ladles, kilns, and other high-temperature zones where mechanical strength and refractoriness are critical.
Used In	Steel, cement, kilns, high-temperature zones

Key Benefits

- High refractoriness – withstands service temperatures above 1700°C
- Higher Al_2O_3 content delivers better high-temperature performance
- Good resistance to thermal shock and spalling
- Strong resistance to acidic and neutral slags
- High cold crushing strength for structural reliability

Chemical Analysis & Physical Data

Chemical Composition (Weight %)

Parameter	Unit	Specification
Al_2O_3	wt%	45% – 80%+
Fe_2O_3	wt%	Max. 2.5%
SiO_2	wt%	Balance

Physical Properties

Property	Specification
Bulk Density	2.3 – 2.8 g/cm ³
Cold Crushing Strength (CCS)	40 – 80 MPa
Apparent Porosity	18 – 25%

Refractoriness

>1700°C

* Test methods are available upon request.

Packaging

- Loose on wooden pallets, shrink-wrapped
- Strapped pallets for container loading
- Custom packaging available on request.

Storage & Handling

- Store in a dry, covered area protected from moisture
- Stack on level ground; avoid impact and edge chipping
- Keep pallets intact until point of use
- Handle with appropriate PPE to prevent injury

Disclaimer: The information provided in this document is based on our current knowledge and is intended as a general guide. Ochnology Solution Pvt. Ltd. reserves the right to modify specifications without prior notice. Buyers are advised to conduct their own testing for specific applications.