

Product Data Sheet

Magnesia Bricks

Description

Description	Magnesia Bricks are basic refractories with a high magnesium-oxide content, produced from dead-burnt or fused magnesite. They offer outstanding resistance to basic slags and very high service temperatures, making them essential for basic steelmaking and non-ferrous metallurgy.
Applications	Used in steel plants, basic oxygen and electric arc furnaces, cement rotary kilns, non-ferrous metal furnaces, and other basic slag environments.
Used In	Steel plants, basic slag environments

Key Benefits

- High resistance to basic slag and chemical attack
- Very high refractoriness – withstands above 1800°C
- Excellent high-temperature mechanical strength
- Good volume stability at elevated temperatures
- Ideal for basic steelmaking and cement kiln linings

Chemical Analysis & Physical Data

Chemical Composition (Weight %)

Parameter	Unit	Specification
MgO	wt%	85% – 98%
CaO	wt%	2% – 5%
SiO ₂	wt%	Balance

Physical Properties

Property	Specification
Bulk Density	2.8 – 3.1 g/cm ³
Cold Crushing Strength (CCS)	50 – 100 MPa
Apparent Porosity	15 – 20%

Refractoriness

>1800°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
- Magnesia is hygroscopic – keep strictly away from water and humidity
- Stack on level ground; avoid impact and edge chipping
- 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.