

ANTI-SPALLING HIGH ALUMINA BRICK (ASHA-75)

Anti-Spalling High Alumina Brick ASHA-75 is a specialised refractory brick formulated to withstand rapid temperature fluctuations and mechanical stresses without cracking or spalling. Designed with advanced additives and microstructural reinforcement, it provides high strength, good creep resistance, and long service life in harsh operational conditions.

TECHNICAL SPECIFICATIONS

PROPERTY	VALUE
Al ₂ O ₃ (%)	≥ 75
SiO ₂ (%)	≤ 20
Apparent Porosity (%)	≤ 20
Bulk Density (g/cm ³)	≥ 2.60
Cold Crushing Strength (MPa)	≥ 70
Refractoriness Under Load (0.2 MPa, °C)	≥ 1550
Thermal Shock Resistance (cycles at 950°C water quench)	≥ 25
Spalling Resistance	Excellent

KEY FEATURES

- High resistance to thermal and mechanical spalling
- Stable performance under repeated heating and cooling cycles
- Good hot strength and structural integrity
- Reduced risk of brick failure in critical kiln zones

APPLICATION AREAS

- Rotary kiln transition zones
- Riser ducts and cooler hoods
- Precalciner linings
- Burner pipes and areas with high thermal cycling

INSTALLATION NOTES

- Use compatible high-alumina mortar for bonding
- Recommended for areas prone to thermal cycling or physical stress
- Avoid direct exposure to alkaline vapours if not protected



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