

EXCELLENT THERMAL SHOCK RESISTANCE FOR CEMENT, NON-FERROUS, AND GENERAL-PURPOSE USE

The **Andalusite-Mullite Brick (AM-65)** is a high-performance refractory brick composed primarily of **andalusite aggregates** that transform into mullite and silica glass during high-temperature exposure. This structure offers **outstanding thermal shock resistance**, **low creep**, and strong performance in cyclic and chemically aggressive environments.

TECHNICAL SPECIFICATIONS	
PROPERTY	AM-65
Al ₂ O ₃ (%)	≥ 65
Apparent Porosity (%)	≤ 19
Bulk Density (g/cm ³)	≥ 2.55
Cold Crushing Strength (MPa)	≥ 60
Modulus of Rupture at 1400°C (MPa)	≥ 9
Refractoriness Under Load (0.2 MPa, °C)	≥ 1500
Thermal Shock Resistance (ΔT ≥ 1000°C)	≥ 25 cycles
Thermal Conductivity at 1000°C (W/m·K)	1.8 – 2.2
Maximum Service Temperature (°C)	1650
Bond Type	Ceramic Bond (Mullitised Andalusite)

KEY APPLICATIONS

- Cement Kilns (Cooler Zones, Tertiary Air Ducts, Kiln Hood)
- Copper, Zinc, and Lead Smelting Furnaces
- Lime and Dolomite Kilns
- Waste Incinerators and Cyclone Preheaters
- Ladle and Tundish Working Linings

PERFORMANCE CHARACTERISTICS

- Exceptional **resistance to rapid temperature changes**
- Stable phase structure** during prolonged operation
- Low thermal conductivity** helps conserve energy
- High **slag corrosion resistance**, especially in cement and non-ferrous applications

PACKAGING & SUPPLY	INSTALLATION NOTES
- Supplied on heat-treated, shrink-wrapped pallets - Available in standard shapes and arch bricks - Complete quality certification with every batch	- Best laid with a compatible andalusite or high-alumina mortar - Stagger vertical joints to mitigate crack propagation - Preheat slowly to limit initial transformation stress

ENVIRONMENTAL & SAFETY NOTES

- Contains no asbestos or environmentally hazardous substances
- Reduced maintenance frequency lowers overall CO₂ emissions
- Produced in environmentally compliant manufacturing facilities



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