

Technical Data Sheet



PRODUCT:

Magnesia Iron Spinel Brick

Introduction

Magnesia iron spinel brick is a high-performance refractory product made from high-purity magnesia as the base material and hercynite as the modified component, via precision batching, high-pressure forming and high-temperature sintering. Its core advantages lie in the excellent combination of high-temperature resistance, thermal shock stability and chemical corrosion resistance. It can effectively resist damage caused by high-temperature melt scouring, alkali metal erosion and sudden temperature changes, featuring a dense structure and slow attenuation of high-temperature strength.

Application

Suitable for the burning zone and transition zone of cement rotary kilns, regenerators of glass furnaces, linings of metallurgical furnaces, waste incinerators and other high-temperature, strong corrosion working conditions.

Physical and Chemical Specifications

Indicators	Values
MgO %	≥85
Al ₂ O ₃ %	3-5
Fe ₂ O ₃ %	4-6
SiO ₂ %	≤1.5
Bulk Density(g/cm ³)	>2.98
Apparent Porosity(%)	≤ 16
Cold Crushing Strength (MPa)	>65
Refractoriness Under Load T _{6.0,9} (°C)	>1700
Thermal Shock Resistance (950°C -Air Cooling)(times)	>100
Thermal Conductivity (W/m.k)	2.6
Thermal Expansion (1400°C) %	1.6

★The chemical composition data are typical values.

Packaging & Storage

Packaging: Wrapped with waterproof PE film individually, 4-6 pieces per bundle bound with PP strapping, outer packed in fumigation-free plywood crates with foam padding inside for shockproofing and metal angle brackets at corners for reinforcement; packaging can be customized according to customer requirements.

Storage: Store in a ventilated, dry and flat warehouse, avoid rain, moisture, collision and exposure to sunlight, and keep away from corrosive substances.