



Oreworld trade (Tangshan) co., Ltd.

Main introduction of Magnesia-Alumina Spinel Brick:

The Magnesia-Alumina [Spinel Brick](#) is made from high purity magnesia sand or fused magnesite and calcined bauxite according to different applications, and then made into different size bricks. The Magnesia-alumina spinel bricks as the chrome free products are specially developed for the transition zone of large scale dry-method cement kiln. They are characterized by high strength, corrosion resistance, high resistance to thermal shock, etc.

Main characters of Manesia-Alumina Spinel Brick

Low thermal conductivity
High flexibility
Coating friendly
High chemical attack resistance
Low porosity

Main specifications of Manesia-Alumina Spinel Brick

Index	Fused synthetic spinel bricks	sintered synthetic spinel bricks
MgO/% \geq	>78	>80
Al ₂ O ₃ /% \leq	10~13	8~12
Fe ₂ O ₃ /%	<1	<1
SiO ₂ /%	<1.8	<1.5
volume density /kg.m ⁻³	\geq 2920	2920~2950
Apparent porosity % \leq	\leq 19	17~19
Compress strength /MPa \geq	\geq 40	\geq 40
refractoriness under load, °C \geq T0.6, T2	\geq 1650 \geq 1700	\geq 1650 \geq 1700
Linear expansivity /% (1000°C)	0.96	0.99
thermal conductivity /W • (m • K) -1	3.00	3.00
Thermal shock resistance (1100°C-Water cold)	\geq 8	\geq 8

Package of Manesia-Alumina Spinel Brick

Products are packed on wooden pallet and then polyethylene film is placed over it, finally the package is tied up with steel strips.



Oreworld trade (Tangshan) co., Ltd.