



Oreworld trade (Tangshan) co., Ltd.

## Magnesia bricks description

Magnesia bricks are a kind of alkalescency refractory bricks that made from the sintered magnesium with its content of 87%-97% and that are combined with silicate. Since its combination composition is mainly CMS-M2S system, its Load softening temperature is low and thermal shock resistance is poor that determine its application is few. But magnesia bricks are widely used in the furnaces and kilns that have alkaline atmosphere. The essential properties of magnesia bricks depend on the nature of the raw materials, the mineral composition, microstructure and closely on the density of the products.

According to the physical and chemical index, there are two grades of Magnesia bricks we can provide.

### Magnesia bricks technical index

Index	MG-92	MG-95	MG-97	MG-98
MgO % $\geq$	92	95	97	98
CaO % $\leq$	2	1.7	1.3	1.2
SiO <sub>2</sub> % $\leq$	1.2	1	0.7	0.6
Fe <sub>2</sub> O <sub>3</sub> % $\leq$	1.2	1	0.8	0.5
Bulk Density $\geq$ g/cm <sup>3</sup>	2.9	2.95	2.95	3
A.P. % $\leq$	16	16	16	15
C.C.S (Mpa) $\geq$	60	70	70	80

### Magnesia bricks application

The [magnesia spinel bricks](#) have the properties of bearing high temperature, high refractoriness under load and good resistance to alkali. They are widely used in the basic zone of metallurgical furnaces, nonferrous furnaces and regenerator of glass furnaces.

### Magnesia bricks package

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