



山东天一化学股份有限公司  
SHANDONG TIANYI CHEMICAL CORPORATION

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## TDS of Magnesium Hydroxide

Molecular formula: Mg ( OH ) 2

Molecular weight: 58.32

Physicochemical properties: white six polycrystalline or amorphous powder. Aqueous solution was alkaline relative density of 2.36g/cm<sup>3</sup>. Soluble in dilute acids and ammonium salt solution, almost insoluble in water and alcohol. The solubility in water ( 18 °C ) for 0.0009g/100g. Easy to absorb air

The carbon dioxide. In 350 °C is decomposed into magnesium oxide and water. Above 500°C Loss of water into magnesium oxide. According to different uses and special requirements, our company has research and development production of magnesium hydroxide products have industrial grade, flame retardant, activity level, food-grade, pharmaceutical grade, paste, and other series of nearly twenty varieties.

Physical and Chemical Properties				
Item	Unit	I	II	III
Mg (OH) 2	%	≥98.0	≥95.0	≥91.5
CaO	%	≤0.2	≤0.5	≤3.0
Fe	%	≤0.05	≤0.1	≤0.3
Moisture	%	≤1.0	≤0.8	≤0.8
Loss on ignition	%	30±2	29±1	29±1
PH Value	—	—	—	10.0±1.0
Acid Non-dissolve	%	≤0.08	≤0.5	—
Whiteness	%	≥95	≥90	≥90
Average particle size	μm	≤2	≤4	≤10, ≤3

### Applications Packing

- Plastics and rubber • Paper-polymer outer & PE inner bag
- Coating and adhesives • Net weight: 25kg/bag, 40kg/bag