

# Technical Data Sheet

## HD USP Magnesium Hydroxide

Distributed by:  
**BARRINGTON**  
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Spray-dried magnesium hydroxide powders for use in the manufacture of antacid preparations and mineral supplements. Different bulk densities offer a choice of compounding possibilities for tablet and powder dosage systems. Meets the requirements of USP (current Edition).

### Chemical Analysis

Magnesium Hydroxide as Mg(OH)<sub>2</sub>

Identification

Microbial Limit

Loss on Drying

Loss on Ignition

Free Alkali

Soluble Salts

Carbonate

Calcium as Ca

Heavy Metals as Pb

Lead as Pb

### Specification

95.0-100.5%

Positive test for Magnesium

Absence of E.Coli

2.00% max

30.0-33.0%

2.00 ml max

2.00% max

To pass test

1.50% max

20 ppm max

1.5 ppm max

### Typical Value

99.0%

0.20%

30.7%

< 0.5 ml

0.50%

0.10%

<< 20 ppm

<< 1.0 ppm

### Physical Analysis

### Specification

### Typical Value

Type of grade:	Bulk Density(untapped)	Tapped Density(1000 taps)	Bulk Density(untapped)	Tapped Density(1000 taps)
HD5	0.25-0.55 g/cc	0.40-0.60 g/cc	0.35 g/cc	0.50 g/cc
HD7	0.40-0.65 g/cc	0.61-0.80 g/cc	0.55 g/cc	0.70 g/cc
HD9	0.60-0.80 g/cc	0.81-1.00 g/cc	0.65 g/cc	0.90 g/cc
HD12	1.10 max g/cc	1.01-1.25 g/cc	0.80 g/cc	1.08 g/cc

Type of grade: Particle size: residue on 325 mesh (wet sieve)

HD5	5.0% max	1.0%
HD7	5.0% max	2.0%
HD9	5.0% max	3.0%
HD12	10.0% max	5.0%

**Appearance and description:** Free flowing white powder, almost insoluble in water and alcohol. Dissolves in dilute mineral acids. (Caution! Exothermic reaction!).

**Packaging and storage:** Net 25 kg in multiwall paper bags with separately sealed moisture proof inner polyethylene bag or big bags. Store in original packaging, in a dry, ventilated space.

**Shelf-life under suitable storage conditions:** 3 years from date of manufacture. Customer-tailored specifications and other packaging modes are available.

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