

# Technical Data Sheet

## HD USP

### Magnesium Hydroxide

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  $Mg(OH)_2$   
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

Type of grade:	Specification		Typical Value	
	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.

840-7002-05-01-2015



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