

Technical Data Sheet

HD

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, FCC, EP Pharmacopoeias and E528 (current edition) for Magnesium Hydroxide.

Chemical & Physical Analysis

Magnesium Hydroxide as Mg(OH)₂ (USP,FCC,EP)
 Magnesium Hydroxide as Mg(OH)₂ (E528)
 Identification
 Solution S (EP)
 Appearance of Solution (EP)
 Microbial Limit (USP)
 Free Alkali /Alkalinity (USP, FCC, E528)
 Soluble Salts / Substances
 Substances Insoluble (EP)
 Chlorides as Cl (EP)
 Sulphates as SO₄ (EP)
 Arsenic as As (E528)
 Arsenic as As (EP)
 Arsenic as As
 Calcium as Ca (USP,EP)
 Calcium as CaO (FCC)
 Calcium as CaO (E528)
 Carbonate (USP)
 Iron as Fe (EP)
 Loss on Drying (USP,FCC,E528)
 Loss on Ignition (USP,FCC)
 Loss on Ignition (E528)
 Loss on Ignition (EP)
 Lead as Pb (USP)
 Lead as Pb (FCC,E528)
 Lead as Pb

Specification

95.0-100.5%
 95.0% min
 Positive test for Magnesium
 To pass test
 To pass test
 Absence of E.Coli
 2.00 ml max
 2.00% max
 0.100% max
 0.1% max
 1.00% max
 3 ppm max
 4 ppm max
 1.5 ppm max (ICH Q3D)
 1.50% max
 1.00% max
 1.50% max
 To pass test
 0.07% max
 2.00% max
 30.0-33.0%
 33.0% max
 29.0-32.5%
 1.5 ppm max
 2 ppm max
 0.5 ppm max (ICH Q3D)

Typical Value

99.0%
 99.0%
 Passed Test
 Passed Test
 Passed Test
 Absent
 < 0.5 ml
 0.50%
 0.05%
 0.06%
 0.10%
 < 1 ppm
 < 1 ppm
 < 1 ppm
 0.10%
 0.10%
 0.10%
 Passed Test
 0.01%
 0.20%
 30.7%
 30.7%
 30.7%
 < 0.5 ppm
 < 0.5 ppm
 < 0.5 ppm

Additional Information

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% | |

Current ICH Q3D tested and comply.

Several different domains to it then selected parameter certificate reporting the most worse domain including.

Appearance and description: A white, fine, odorless powder, almost insoluble in water and alcohol. Dissolves in dilute mineral acids. (Caution! Exothermic reaction!).

Packaging and storage: Net 25 or 500 or 800 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: 4 years from date of manufacture.

Customer-tailored specifications and other packaging modes are available.

840-7011-05-07-2018

* - Inspection or field according to specific requests



Dead Sea Bromine Company Ltd.

P.O Box 180 Beer - Sheva 8410101 Israel

Tel:+972-8-6566216 Fax: +972-8-6297530

ICL\Specialty Minerals (Magnesia Products)

www.icl-ip.com

info@periclase.icl-ip.com