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Typical Product Specifications & Properties

Pharmaceutical Grade Magnesium Hydroxide HD ~ USP

CAS Number: : 1309-42-8

Specifications	Limits
Density	2.36
Melting Point	350 c (dec.)
Tapped Density (1000 taps)	HD12 - 1.01 - 1.25 g/cc
Calcium as Ca	1.50% max
Heavy Metals, as Pb	20 ppm max
Bulk Density (untapped)	HD7 - 0.40 - 0.65 g/cc
Magnesium Hydroxide as Mg(OH) ₂	95.0 - 100.5%
Identification	Positive test for Magnesium
Microbial enumeration test	Passes test
Loss on Ignition	30.0 - 33.0% max
Loss on Drying	2.00% max
Free Alkali	2 ml



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Specifications	Limits
Soluble Salts	2.00% max
Carbonates	to pass effervescence test
Lead as Pb	1.5 ppm max
Bulk Density (untapped)	HD5 - 0.25 - 0.55 g/cc
Bulk Density (untapped)	HD9 - 0.60 - 0.80 g/cc
Bulk Density (untapped)	HD12 - max 1.10 g/cc
Tapped Density (1000 taps)	HD5 - 0.40 - 0.60 g/cc
Tapped Density (1000 taps)	HD7 - 0.61 - 0.80 g/cc
Tapped Density (1000 taps)	HD9 - 0.81 - 1.00 g/cc
Particle Size: Passes 325 mesh (wet Sieve)	HD5 - 95.0% min
Particle Size: Passes 325 mesh (wet Sieve)	HD7 - 95.0% min
Particle Size: Passes 325 mesh (wet Sieve)	HD9 - 95.0% min



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Specifications	Limits
Particle Size: Passes 325 mesh (wet Sieve)	HD12 - 90.0% min
Odor	odorless
Molecular weight	58.33
Color	white amorphous powder or colorless hexagonal crystal
Solubility	soln. of ammonium salts and dilute acids



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