

Typical Product Properties

Magnesium Compounds: Magnesium Hydroxide Powders

Magnesium Hydroxide	5100 CG Mg Hyd Powder USP	5112 Mg Hyd Powder High Density	DC Magnesium Hyd MS90
Characteristics			
Description	Bulky white powder	Bulky white powder	White to off-white granular powder
Physical			
Tapped Density (Info only)	0.68 – 0.84 g/mL		0.65 – 0.85 g/mL
Chemical			
Assay (dried @ 105 deg C for 2 hrs)	95.0 – 100.5% Mg(OH) ₂	95.0 – 100.5% Mg(OH) ₃	90.0 – 96.0% Mg(OH) ₃
Loss on Drying	NMT 2.0%	NMT 2.0%	NMT 3.0%
Loss on Ignition (LOI)	30.0 – 33.0%	30.0 – 33.0%	
Soluble Salts and Alkalies	NMT 2.0 mL of acid and NMT 10 mg residue	NMT 2.0 mL of acid and NMT 10 mg residue	
⁽²⁾⁽³⁾ Lead (by ICP-MS)	NMT 1.5 ppm	NMT 1.5 ppm	
⁽²⁾ Calcium @ 100%	NMT 1.5%	NMT 1.5%	
⁽¹⁾ Heavy Metals	NMT 20 ppm	NMT 20 ppm	
Soluble Substances			
Subs. insoluble in Acetic Acid			
Chloride			
Sulfate			
Iron			
Arsenic			
Microbial			
<i>E. Coli</i>	Absence	Absence	Absence

Other Notes

(1) These tests are on a reduced testing status.

(2) These tests are calculated to a dry basis.

This product is manufactured under cGMP conditions.

This product meets the Residual Solvents specification as described in USP Chapter <467>.

(3) Available with lead specification of NMT 100 ppb.



Typical Product Properties

Magnesium Compounds: Magnesium Hydroxide Powders

Magnesium Hydroxide	5200 Mg Hyd Powder USP Resusp	5200 Mg Hyd Pdr Ph. Eur Resusp
Characteristics		
Description	White or almost white, fine, amorphous powder	Bulky white powder
Physical		
Tapped Density (Info only)	0.60 – 0.75 g/mL	0.60 – 0.75 g/mL
Chemical		
Assay (dried @ 105 deg C for 2 hrs)	95.0 – 100.5% Mg(OH) ₃	95.0 – 100.5% Mg(OH) ₃
Loss on Drying	NMT 2.0%	
Loss on Ignition (LOI)	30.0 – 33.0%	29.0 – 32.5%
Soluble Salts and Alkalies	NMT 2.0 mL of acid and NMT 10 mg residue	
⁽²⁾⁽³⁾ Lead (by ICP-MS)	NMT 1.5 ppm	
⁽²⁾ Calcium @ 100%	NMT 1.5%	NMT 1.5%
⁽¹⁾ Heavy Metals	NMT 20 ppm	NMT 30 ppm
Soluble Substances		NMT 2.0%
Subs. insoluble in Acetic Acid		NMT 0.1%
Chloride		NMT 0.1%
Sulfate		NMT 1.0%
Iron		NMT 0.07%
Arsenic		NMT 4 ppm
Microbial		
<i>E. Coli</i>	Absence	Absence

Other Notes

(1) These tests are on a reduced testing status.

(2) These tests are calculated to a dry basis.

This product is manufactured under cGMP conditions.

This product meets the Residual Solvents specification as described in USP Chapter <467>.

(4) These tests are measured at the time of release and are not indicative of stability.

Typical Product Properties

Magnesium Compounds: Magnesium Hydroxide Powders

Magnesium Hydroxide	5300 Mg Hyd USP	5300 Mg Hyd Ph. Eur
Characteristics		
Description	Bulky white powder	White or almost white, fine, amorphous powder
Physical		
Tapped Density (Info only)	0.60 – 0.90 g/mL	0.60 – 0.90 g/mL
Chemical		
Assay (dried @ 105 deg C for 2 hrs)	95.0 – 100.5% Mg(OH) ₂	95.0 – 100.5% Mg(OH) ₃
Loss on Drying	NMT 2.0%	
Loss on Ignition (LOI)	30.0 – 33.0%	29.0 – 32.5%
Soluble Salts and Alkalies	NMT 2.0 mL of acid and NMT 10 mg residue	
⁽²⁾⁽³⁾ Lead (by ICP-MS)	NMT 1.5 ppm	
⁽²⁾ Calcium @ 100%	NMT 1.5%	NMT 1.5%
⁽¹⁾ Heavy Metals	NMT 20 ppm	NMT 30 ppm
Soluble Substances		NMT 2.0%
Subs. insoluble in Acetic Acid		NMT 0.1%
Chloride		NMT 0.1%
Sulfate		NMT 1.0%
Iron		NMT 0.07%
Arsenic		NMT 4 ppm
Microbial		
<i>E. Coli</i>	Absence	Absence

Other Notes

(1) These tests are on a reduced testing status.

(2) These tests are calculated to a dry basis.

This product is manufactured under cGMP conditions.

This product meets the Residual Solvents specification as described in USP Chapter <467>.



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