



Specification

Concerning Product:	
Article number	1309428MPEL
Trade name / designation / denomination	Magnesiumhydroxyd EP, E 528
CAS number	1309-42-8
Other names / synonyms	•MAGNESIUM HYDROXIDE; •Magnesium Hydroxide, FCC; •Magnesium Hydroxide, Powder, Reagent; •Magnesium Hydroxide, Powder, USP; •Magnesium hydroxide; •magnesium dihydroxide; •magnesium hydroxide;
EC number	215-170-3
Customs tariff number / CN code / TARIC	28161000
Molecular weight [g / mol]	58,33
Formula	Mg(OH) ₂ H ₂ MgO ₂

Parameter	Specification	Unit
Organoleptic test		
Appearance of solution	complies	
Colour	white	
Odour	odourless	
Physical parameter		
Form	fine powder	
Substances insoluble	in C ₂ H ₄ O ₂ : ≤ 0,1	%
Loss on drying	(105 °C) ≤ 2,0	%
Bulk density	400 – 650	g/l
Bulk density	1000 x gestampft / tamped: 610 – 800	g/ml
Solubility	in water: insoluble in ethanol: insoluble in diluted acids: soluble	

Identity		
Assay	Mg(OH) ₂ : 95,0 – 100,5	%
Identification	solution S: complies	
Impurities		
Free Alkali (Ca(OH) ₂)	≤ 2,0	ml
Residue on ignition	(E 528): ≥ 67,0	%
Residue on ignition	(EP): 67,5 – 71,0	%
Soluble part	≤ 2,0	%
Sulphates (SO ₄)	≤ 1,0	%
Impurity	CaO: ≤ 1,5	%
Elemental Impurities		
Arsenic (As)	≤ 1,5	ppm
Calcium (Ca)	≤ 1,5	%
Chlorides (Cl)	≤ 1000	ppm
Iron (Fe)	≤ 700	ppm
Lead (Pb)	≤ 0,5	ppm
Microbiological data		
Escherichia Coli.	neg.	
Particle size distribution		
Particles	nass / wet > 325 Mesh: ≤ 5,0	%

Supplemental information:

Complies with monographie: Ph.Eur., E 528

Regional origin: D

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 20. Jan. 2020

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