



Specification

Concerning Product:	
Article number	1309484MLE
Trade name / designation / denomination	Magnesiumoxide light
CAS number	1309-48-4
Other names / synonyms	•MAGNESIUM OXIDE; •Magnesia grooves; •Magnesia sticks; •Magnesium Oxide, Heavy Powder, USP; •Magnesium Oxide, Light Powder, USP; •Magnesium Oxide, Powder, FCC; •Magnesium Oxide, Powder, Reagent, ACS; •Magnesium Oxide, Powder, Technical; •Magnesium oxide; •Magnesium oxide substrate, 10x10x0.5mm, polished one side, 100 orientation;
EC number	215-171-9
Customs tariff number / CN code / TARIC	25199010
Molecular weight [g / mol]	40,30
Formula	MgO

Parameter	Specification	Unit
Organoleptic test		
Appearance of solution	≤ B2	
Appearance	free-flowing, white powder	
Physical parameter		
Substances insoluble	in Acetic acid: ≤ 0,1	%
Substances insoluble	in acid ≤ 0,1	%
Bulk density	≤ 0,15	g/ml
Solubility	insoluble in water and alcohol, soluble in diluted mineral acids with effervescence	
Solubility	Soluble salts ≤ 2,0	%
Identity		
Assay	on ignited basis 98,0 – 100,5	%
Identification	(Alkali): positive	
Identification	(Mg): positive	
Impurities		
Free Alkali (Ca(OH) ₂)	(0,1N H ₂ SO ₄): ≤ 2,0	ml
Residue on ignition	≥ 95	%
Sulphates (SO ₄)	≤ 1,0	%
Impurity	CaO: ≤ 1,5	%
Elemental Impurities		
Arsenic (As)	≤ 3	ppm
Calcium (Ca)	≤ 1,1	%
Chlorides (Cl)	≤ 0,15	%
Iron (Fe)	≤ 0,05	ppm
Lead (Pb)	≤ 2	ppm
Microbiological data		
Bacterial endotoxins	Enterobacteriaceae: negative	
Escherichia Coli.	neg.	
Salmonella	neg.	
Total Plate Count	≤ 1000	CFU/g
Yeast and Mould	≤ 100	CFU/g
Particle size distribution		
Particles	(< 45 µm) (wet sieve) ≤ 97,0	%

Supplemental information:

Complies with monographie: EP, USP, E 530

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 30. Nov. 2022

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