



Specification

Concerning Product:	
Article number	1309484VPEBUL
Trade name / designation / denomination	Magnesiumoxid, schwer EP, BP, USP, E 530 Magnesiumoxide, heavy
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	Test Method	Specification	Unit
Organoleptic test			
Appearance of solution	EP	complies	
Colour		white	
Odour		odourless	
Physical parameter			
Form		fine powder	
Substances insoluble	EP	in C ₂ H ₄ O ₂ : ≤ 0,1	%
Bulk density		(~ 480) ≥ 250	g/L
Solubility		in water: insoluble; in ethanol: insoluble; in diluted acids: soluble	
Identity			
Assay	E 530	MgO: ≥ 98,0	%
Assay	EP	MgO: 98,0 – 100,5	%
Identification	EP	complies	
Impurities			

Free Alkali (Ca(OH) ₂)		(0,1N H ₂ SO ₄): ≤ 2,0	ml
Residue on ignition	E 530	≤ 5,0	%
Residue on ignition	EP	≤ 8,0	%
Heavy Metals (as Pb)		≤ 30	ppm
Soluble part	EP, E 530	in H ₂ O: ≤ 2,0	%
Sulphates (SO ₄)	EP	≤ 1,0	%
Impurity	E 530	CaO: ≤ 1,5	%
Elemental Impurities			
Arsenic (As)	E 530	≤ 3	ppm
Arsenic (As)	EP	≤ 4	ppm
Calcium (Ca)	EP	≤ 1,5	%
Chlorides (Cl)	EP	≤ 0,1	%
Iron (Fe)	EP	≤ 0,07	%
Lead (Pb)		≤ 0,3	ppm
Particle size distribution			
Particles		< 325 Mesh (44 µm): ≥ 75,0	%

Supplemental information:

Storage conditions: Magnesium oxide must be stored in dry ambient environment. Avoid heat and humidity. In cas of open storage MgO is affected by H₂O and CO₂ from the air. Opened bags should always be stored well closed.

Complies with monographie: EP, USP, FCC, E 530

Packing: 25 kg paper bags with PE-liner

Usage:

- Pharmaceutical applications, i.a. as an antacid
- **Magnesium base for vitamin tablets**
- Food additive

Version of manufacturer: A.7

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 17. May. 2019

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