



## Specification

Concerning Product:	
Article number	1309484MWPEUL
Trade name / designation / denomination	Magnesiumoxid, schwer, pharma
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
<b>Organoleptic test</b>			
Appearance of solution	EP	complies	
Colour		white	
Odour		odourless	
<b>Physical parameter</b>			
Form		powder	
Bulk density		250 – 650	g/L
Solubility		in water: insoluble; in ethanol: insoluble; in diluted acids: soluble	
<b>Identity</b>			
Assay	USP, FCC	MgO: 96,0 – 100,5	%
Assay	E 530	MgO: ≥ 98,0	%
Assay	EP	MgO: 98,0 – 100,5	%
Identification	EP	complies	
<b>Impurities</b>			
Free Alkali (Ca(OH) <sub>2</sub> )		(0,1N H <sub>2</sub> SO <sub>4</sub> ): ≤ 2,0	ml

Residue on ignition	E 530	≤ 5,0	%
Residue on ignition	EP	≤ 8,0	%
Residue on ignition	USP, FCC	≤ 10,0	%
Heavy Metals (as Pb)		≤ 30	ppm
Insoluble impurities	EP	in C <sub>2</sub> H <sub>4</sub> O <sub>2</sub> : ≤ 0,1	
Soluble part	EP, E530	in H <sub>2</sub> O: ≤ 2,0	%
Sulphates (SO <sub>4</sub> )	EP	≤ 1,0	%
Impurity	E 530	CaO: ≤ 1,50	%
<b>Elemental Impurities</b>			
Arsenic (As)	EP	≤ 1	ppm
Calcium (Ca)	USP	≤ 1,10	ppm
Calcium (Ca)	EP	≤ 1,50	%
Cadmium (Cd)		≤ 0,5	ppm
Chlorides (Cl)	EP	≤ 0,10	%
Iron (Fe)	USP	≤ 0,05	%
Iron (Fe)	EP	≤ 0,07	%
Mercury (Hg)		≤ 0,5	ppm
Lead (Pb)		≤ 0,5	ppm
<b>Particle size distribution</b>			
Particles		> 325 Mesh ≤ 25	%

**Supplemental information:**

**Released by manufacturer:** 2018-03-16

**Storage conditions:** Magnesium oxide must be stored in dry ambient environment. Avoid heat and humidity. In cas of open storage MgO is affected by H<sub>2</sub>O and CO<sub>2</sub> 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:** 2

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 05. Jun. 2019

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