



Specification

Concerning Product:	
Article number	1309484MGPF
Trade name / designation / denomination	Magnesiumoxide granulat
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		complies	
Colour		white	
Physical parameter			
Form		granulated powder	
Substances insoluble		in HCl: ≤ 0,10	%
Loss on ignition		≤ 5,0	%
Loss on ignition	USP, FCC	≤ 10,0	%
Loss on ignition	EP	≤ 8,0	%
Bulk density		1000 x gestampft / tapped: 0,90 – 1,20	g/ml
Bulk density		ungestampft / untapped: 0,85 – 1,05	g/ml
Solubility		Almost insoluble in water. Insoluble in alcohol. Dissolves in diluted mineral acids.	
Identity			
Assay	EP	(o.d.b.)* 98,0 – 100,5	%
Assay	E 530	(o.d.b.)* ≥ 98,0	%
Assay	USP, FCC	(o.d.b.)* 96,0 – 100,5	%
Identification		complies	

Identification	EP	Solution S: complies	
Impurities			
Free Alkali (Ca(OH) ₂)	USP, FCC, E530	≤ 2,0	ml
Soluble part		≤ 2,0	%
Sulphates (SO ₄)	EP	≤ 1,0	%
Impurity		CaO: ≤ 1,5	%
Elemental Impurities			
Arsenic (As)	FCC, E 530	≤ 3	ppm
Arsenic (As)		≤ 1	ppm
Calcium (Ca)	USP	≤ 1,1	%
Calcium (Ca)	EP	≤ 1,5	%
Cadmium (Cd)		≤ 0,5	ppm
Chlorides (Cl)	EP	≤ 0,1	%
Iron (Fe)		≤ 500	ppm
Iron (Fe)	USP	≤ 0,05	ppm
Iron (Fe)	EP	≤ 0,07	ppm
Mercury (Hg)		≤ 0,1	ppm
Lead (Pb)	FCC	≤ 4	ppm
Lead (Pb)	E 530	≤ 2	ppm
Lead (Pb)		≤ 0,2	ppm
Particle size distribution			
Particles		< 100 mesh: 1,0 – 8,0	%
Particles		< 30 ... > 60 mesh: 60,0 – 80,0	%
Particles		< 60 ... > 100 mesh: 5,0 – 25,0	%
Particles		> 20 mesh: ≤ 0,0	%
Particles		> 30 mesh: 8,0 – 20,0	%

Annotation:

* o.d.b. = on dried basis / auf getrockneter Basis

Supplemental information:

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

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 24. Aug. 2023

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