



## Specification

Concerning Product:	
Article number	1309484MWR
Trade name / designation / denomination	Magnesiumoxid, schwer, rein
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
<b>Organoleptic test</b>		
Appearance	white, crystalline powder	
Odour	odourless	
<b>Physical parameter</b>		
Bulk density	(10 x TAP): 400 – 600	g/l
Solubility	almost insoluble in water, soluble in dilute mineral acids	
Specific surface area	(BET): 4,0 – 20,0	m <sup>2</sup> /g
<b>Identity</b>		
Assay	MgO: ≥ 99,0	%
<b>Impurities</b>		
Residue on ignition	(@ 900 °C): ≤ 2,0	%
Sulphates (SO <sub>4</sub> )	≤ 0,15	%
Impurity	B <sub>2</sub> O <sub>3</sub> : ≤ 0,02	%
Impurity	CaO: ≤ 0,15	%
Impurity	Fe <sub>2</sub> O <sub>3</sub> : ≤ 0,012	%
Impurity	SiO <sub>2</sub> : ≤ 0,05	%
<b>Elemental Impurities</b>		
Chlorides (Cl)	≤ 0,12	%
Sodium (Na)	≤ 0,10	%
<b>Particle size distribution</b>		
Particles	> 100 Mesh ≤ 2,0	%
Particles	> 200 Mesh ≤ 10,0	%
Particles	> 325 Mesh ≤ 25,0	%

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 14. May. 2019

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