



Specification

Concerning Product:	
Article number	557040MEUFE
Trade name / designation / denomination	Magnesiumstearat, pflanzlich vegetable
CAS number	557-04-0
Other names / synonyms	•Magnesium distearate, pure; •magnesium distearate; •magnesium octadecanoate;
EC number	209-150-3
Customs tariff number / CN code / TARIC	29157050
Molecular weight [g / mol]	591,25
Formula	C36H70MgO4

Parameter	Specification	Unit
Organoleptic test		
Colour	Whiteness ≥ 85	
Odour	odorless or with a very faint odor of stearic acid	
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Physical parameter		
Acidity/Alkalinity	0.1 M HCl or 0.1 M NaOH $\leq 0,5$	
Acidity/Alkalinity	Acid number:	
Loss on drying	105 °C ≤ 4	%
Bulk density	100 – 300	g/l
Solubility	(B) Fatty acids 195 – 210	mg
Solubility	(C) corresponds to chromatography	
Solubility	(D) corresponds	
Solubility	practically insoluble in water, ethanol and ether	
Specific surface area	5 – 15	m ² /g
Identity		
Assay	Mg (on a dry basis) 4,0 – 5,0	%
Assay	MgO 6,8 – 8,3	%
Identification	(A) freezing point ≥ 54	°C
Impurities		
Free Alkali (Ca(OH) ₂)	$\leq 0,1$	%
Heavy Metals (as Pb)	≤ 2	ppm
Sulphates (SO ₄)	$\leq 1,0$	%
Residual Solvents		
Residual solvents	complies	
Elemental Impurities		
Arsenic (As)	≤ 3	ppm
Cadmium (Cd)	≤ 1	ppm
Chlorides (Cl)	$\leq 0,1$	%
Mercury (Hg)	≤ 1	ppm
Nickel (Ni)	≤ 5	ppm
Microbiological data		
Coliform bacteria	neg.	/g
Salmonella	neg.	/g
Total Plate Count	≤ 1000	CFU/g
Yeast and Mould	≤ 100	CFU/g
Particle size distribution		
Particles	< 200 Mesh ≤ 95	%

Chemische Werke Hommel GmbH & Co.KG

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Waltrop, 30. Sep. 2020

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