

## Specification

Magnesia 4268  
Magnesium stearate, vegetable  
EP, USP, FCC, E 470b

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Article No.:	6426800
Specification Type:	Standard
Version:	1
Issue Date:	12.07.2018

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Appearance	very fine, light, white powder
Odour	odourless or with a very faint odour of stearic acid
Solubility	practically insoluble in water, soluble in diluted mineral acids and in alkali hydroxide solutions
Identification (A) (Freezing point of the fatty acids)	min. 54 °C
Identification (B) (Fatty acids)	195 - 210 mg KOH/g
Identification (C) (Chromatography)	complies
Identification (D)	complies
Mg (on dried basis)	4.0 - 5.0 %
MgO	6.8 - 8.3 %
Acidity / Alkalinity (0.1 M HCl or 0.1 M NaOH)	max. 0.05 ml
Acid value	195 - 210 mg KOH/g
Cl	max. 0.1 %
SO <sub>4</sub>	max. 1.0 %
Pb	max. 2 ppm
Cd	max. 1 ppm
Hg	max. 1 ppm
As	max. 3 ppm
Ni	max. 5 ppm
Unsaponifiable substances	max. 2.0 %
Free alkali	max. 0.1 %
Free fatty acids	max. 3.0 %
Fatty acids C <sub>18</sub>	min. 40.0 %
Fatty acids C <sub>16</sub> + C <sub>18</sub>	min. 90.0 %
Residual solvents	complies
Loss on drying (105 °C)	max. 4.0 %
Total Plate Count	max. 1000 cfu/g
Yeasts / Moulds	max. 100 cfu/g
E. coli	negative/g

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Salmonella	negative
Particle size (< 200 mesh)	min. 95 %
Bulk density	100 - 300 g/l
Specific surface area	5 - 15 m <sup>2</sup> /g
Whiteness	min. 85

Parameters indicated in this specification are based on our current, carefully determined knowledge. It is the users own responsibility to test and analyze materials and therefore corroborate that products are adequate for their applications.