

Neusilin® S1/S2

Technical Data Sheet

www.neusilin.com

Neusilin® - The Specialty Excipient

A synthetic magnesium aluminometasilicate (MAS) with exceptional excipient properties for improving actives delivery and quality of pharmaceutical preparations. Although chemically the same as traditional crystalline MAS, Neusilin® is both structurally and functionally a very different product that serves a multitude of purposes when compared to other silicates.

Key Features

- Stabilizer
- Improves tablet and powder capsule quality
- Compact tablets with relevant hardness

General Properties

Grade	S1	S2	
Chemical formula	$Al_2O_3 \cdot MgO \cdot 1.7SiO_2 \cdot xH_2O$		
General name	Magnesium Aluminometasilicate		
Appearance	White granule		
Form	Amorphous		
Solubility	Practically insoluble in water and ethanol		
Composition (%) on dried basis	Al_2O_3 29.1 - 35.5 MgO 11.4 - 14.0 SiO_2 29.2 - 35.6		
Degree of whiteness	> 95	> 95	
Loss on drying 110°C/7hrs (%)	13 - 20	< 5	
Bulk density	Loose (g/ml)	0.30 - 0.37	0.29 - 0.37
	Tapped (g/ml)	0.36 - 0.43	0.34 - 0.42
True specific gravity	2.0	2.2	
Specific surface area (m ² /g)	110	110	
Average particle size (µm)	112	115	
Angle of repose (°)	30	30	
Oil adsorbing capacity (ml/g)	1.3	1.4	
Water adsorbing capacity (ml/g)	1.0	1.2	
Acid consuming capacity (ml/g)	≥ 210	≥ 210	
Ph 4% slurry	8.5 - 10.0	8.5 - 10.0	

Typical Application and Quantity Required

Application / function	Quantity (%)
Excipient / diluent	30 - 90
Tablet - binder, disintegration aid, increase hardness	1 - 10

Pharmacopoeia & Regulatory

Neusilin® meets all requirements of the current USP/NF and JPC. US DMF Type IV filed in 1998.

Handling & Storage

Packaging: 20 kg double-lined Kraft bags

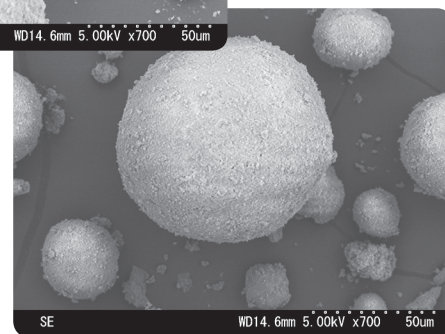
Storage: Store at room temperature and avoid high humidity.

Shelf life: 3 years from the date of manufacture stored in recommended conditions.

Neusilin® S1 (x700)



Neusilin® S2 (x700)



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