

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

- · Oil adsorption of poorly water soluble actives
- · Improves tablet and powder capsule quality
- Compact tablets with relevant hardness
- Excellent carrier for solid dispersion

General Properties

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 ₂ O ₃ 29.1 - 35.5 MgO 11.4 - 14.0 SiO ₂ 29.2 - 35.6
Degree of whiteness		> 95
Loss on drying 110°C/7hrs (%)		< 7
Bulk density	Loose (g/ml)	0.13 - 0.18
	Tapped (g/ml)	0.16 - 0.22
True specific gravity		2.2
Specific surface area (m²/g)		300
Average particle size (µm)		106
Angle of repose (°)		30
Oil adsorbing capacity (ml/g)		2.7 - 3.4
Water adsorbing capacity (ml/g)		2.4 - 3.1
Acid consuming capacity (ml/g)		≧ 210
Ph 4% slurry		6.0 - 8.0

Typical Application and Quantity Required

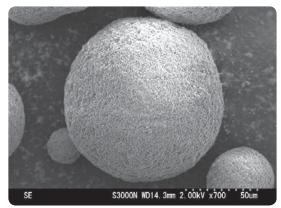
Application / function	Quantity (%)
Excipient / diluent	30 - 90
Tablet - binder, disintegration aid, increase hardness	1 - 10
Stabilization of deliquescent drugs	5 - 15
Solidification of liquid pharmaceutical preparations	30 - 50
Solid dispersion, SMEDDS	20 - 50

Pharmacopoeia & Regulatory

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

Handling & Storage

Packaging: 10 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® US2 (×700)



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