

TECHNICAL DATA SHEET

Neusilin[®] US2



Neusilin[®] - The Specialty Excipient

A synthetic magnesium aluminometasilicate (MAS) with exceptional excipient properties for improving actives delivery and quality of pharmaceutical preparations.

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

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
Bulk density	Loose (g/ml) 0.13 - 0.18
	Tapped (g/ml) 0.16 - 0.22
True specific gravity	2.2
Specific surface area (m ² /g)	400
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

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
Carrier for solid dispersion, SMEDDS	20 - 50

Pharmacopoeia & Regulatory

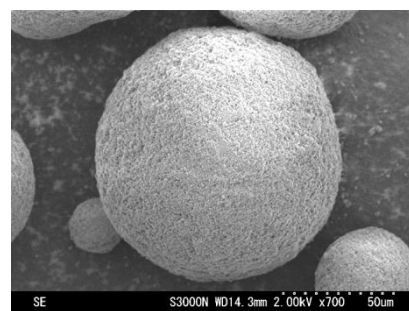
Neusilin[®] meets all requirements of the current USP/NF and JP. US DMF Type IV filed.

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 (x700)

Typical Application and Quantity Required



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