TECHNICAL DATA SHEET





SILLITIN N 75

Field of application: Paint & Varnish

1. Description

SILLITIN N 75 is a natural combination of corpuscular silica and lamellar kaolinite. These two components together form a loose structure which offers particular advantages in terms of application possibilities when used as a functional filler.

Characteristics				
Appearance		free-flowing powder		
Color CIELAB scale:	L* a* b*	88.0 4.5 20.0		
Residue > 40 µm		25 mg/kg		
Volatile matter at 105 °C		0.5 %		
Densitiy		2.6 g/cm³		
Particle size distribution	D ₅₀ D ₉₇	3 μm 16 μm		
Surface area BET		12 m²/g		
Oil absorption		45 g/100 g		
Electtrical conductivity		80 μS/cm		
Refractive index n		1.55		

Packaging	
Paper bags	á 25 kg
EVA bags	≤ 20 kg
Big Bags	750 - 1200 kg
Bulk	≤ 25 t

Shelf life

Unlimited if stored properly under dry conditions.

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2. Applications

In paint and varnish applications SILLITIN N 75 can be used as a functional filler either on its own or combined with extenders or flatting agents.

Information on compliance with certain regulations/recommendations and other safety-related aspects: Product safety information

Fields of application

- · exterior and interior emulsion paints
- industrial paints
- wood and foil coatings
- · primers and fillers
- sealing and embedding compounds

In clear coats, it achieves good transparency with strong yellow coloration, similar to transparent yellow iron oxide pigment.

Formulation principle:

preferably aqueous, solvent-borne and solvent-free possible with intensive dispersion or low grinding fineness requirements.

Hardening principle:

all conventional reaction types, also UV-curing

Minimum film thickness:

> 20 µm, less in special cases

Metering:

up to 55 % depending on intended application



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3. Benefits

- · high filling ratio
- · outstanding dispersion behavior
- · good pigment dispersion (spacer effect)
- relatively low abrasiveness
- · low tendency to settle
- good wet edge strength
- quick drying
- · weathering resistance
- breathability
- · scratch resistance
- · high abrasion resistance
- good transparency
- · good flatting effect
- · complies with the standards on basic foodstuffs of the BfR and FDA

Comparison of properties						
	SILLITIN V	SILLITIN N	SILLITIN Z	SILLIKOLLOID P		
Viscosity	•	••	•••	••••		
Yield point	•	••	•••	•••		
Sedimentation	••••	•••	••	•		
Flatting	••••	•••	••	•		

• = low •••• = high



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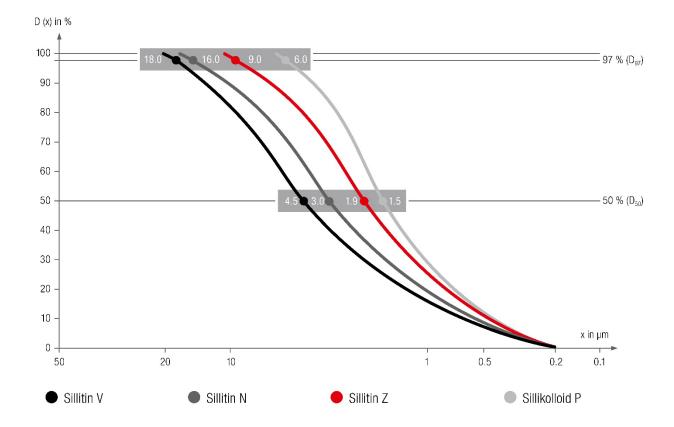
4. Particle size distribution

The measurement method for these particle size distributions is based on the Fraunhofer diffraction spectrum. The analyses were carried out with Mastersizer 3000, a laser apparatus of Malvern.

Important:

The data on particle size distribution is highly dependent upon the method used, test preparations and the measuring device itself. As a result the values given may not be directly comparable with those provided by another manufacturer.

If you have any queries please contact us direct.



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