

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*	88.0
	a*	4.5
	b*	20.0
Residue > 40 µm		25 mg/kg
Volatile matter at 105 °C		0.5 %
Density		2.6 g/cm ³
Particle size distribution	D ₅₀	3 µm
	D ₉₇	16 µm
Surface area BET		12 m ² /g
Oil absorption		45 g/100 g
Electrical conductivity		80 µS/cm
Refractive index n		1.55

Packaging

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

Shelf life

Unlimited if stored properly under dry conditions.



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 flattening 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



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 flattening 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



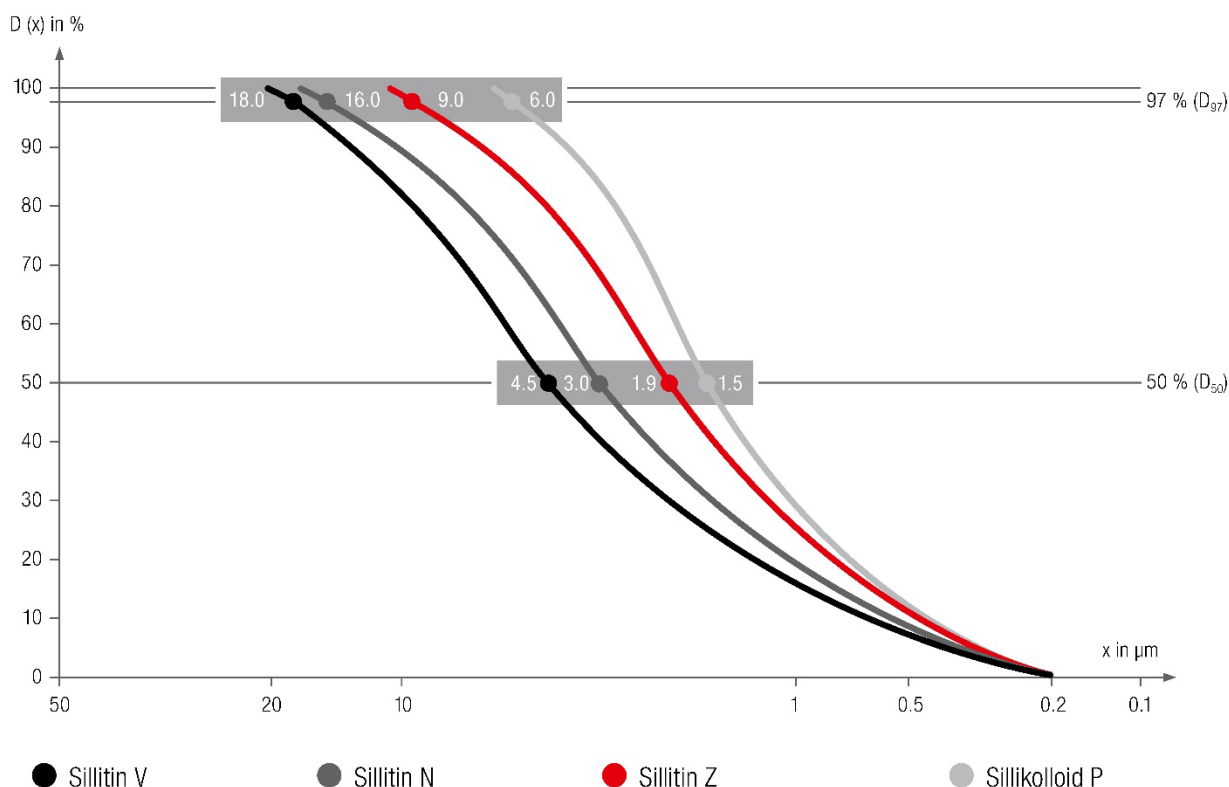
4. Particle size distribution

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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