

Schill+Seilacher

Any Questions?

Our service team will be pleased to answer any questions and to assist you with advice and information at all times. We can also advise you of the contact data of our local offices and agencies. Data sheets and samples of our products are available upon request.

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**PROTECTION & CARE
WATER REPELLENCE**

struksilon

**SILICONE
WAXES**



SOLUTIONS | TAILORMADE | WORLDWIDE

SILICONE WAXES

Silicone waxes combine the properties of waxes and silicones in one molecule. The characteristics of both types of products can be utilized. Additionally, by variation of the silicone backbone and alkyl chain length the viscosity of the silicone waxes can be tuned from liquid (STRUKSILON 8421) to soft and waxy (STRUKSILON 8422) to a solid (STRUKSILON 8423) product.

APPLICATION FIELDS

Silicone waxes are universally applicable in care and cleaning products for household and technical applications. With STRUKSILON 8421, STRUKSILON 8422 and STRUKSILON 8423 three versatile silicone waxes have been developed for a wide variety of surfaces and a broad range of applications.

SOLUBILITY

Solubility at 25 °C;
concentration 10 %

	Struksilon 8421	Struksilon 8422	Struksilon 8423
WATER	X	X	X
CYCLOPENTASILOXANE	✓	●	●
DIMETHICONE	✓	X	●
PARAFFINES	✓	✓	✓
ALCOHOLS	X	X	X
FATTY ALCOHOLS	✓	✓	✓
FATTY ACID ESTERS	✓	✓	✓
AROMATICS	✓	✓	✓

✓ = soluble X = insoluble ● = dispersible

CHEMICAL AND PHYSICAL PROPERTIES

STRUKSILON 8421/8422/8423 consist of a linear silicone polymer modified by alkyl chains, which are randomly distributed along the silicone backbone.

Struksilon 8421

Appearance: colourless to slightly brownish, low viscous liquid

Viscosity at 25 °C: 90 mPa.s

Density at 25 °C: 910 kg/m³

Refractive index at 25 °C: 1.432

Colour (Gardner) at 25 °C: max. 3

Melting point: 3 °C

Dosage: 0.5 – 2.0 %

Struksilon 8422

Appearance: white to slightly grey, paste-like, waxy material

Viscosity at 40 °C: 250 mPa.s

Density at 40 °C: 890 kg/m³

Refractive index at 40 °C: 1.434

Colour (Gardner) at 40 °C: max. 3

Melting point: 34 – 41 °C

Dosage: 0.5 – 2.0 %

Struksilon 8423

Appearance: white to slightly grey, waxy and solid material

Viscosity at 60 °C: 120 mPa.s

Refractive index at 60 °C: 1.431

Colour (Gardner) at 60 °C: max. 5

Melting point: 45 – 55 °C

Dosage: 0.5 – 2.0 %

- Silicone waxes
- Combination of wax and silicone oil
- Liquid, pasty, solid
- Highly hydrophobic
- Good spreading