

# SILISIL Paste 4 - High-performance silicone paste

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## Description:

SILISIL Paste 4 is a silicone-based, high-temperature-resistant paste based on polydimethylsiloxane oil (PDMS) and an inert silica filler.

It is food-grade (NSF H1) and is suitable for lubricating machines and equipment in food processing, as well as for applications requiring a wide temperature range, water resistance, and electrical insulation. The product is versatile and can be used as a lubricant, release agent, and protective paste in various industrial applications.

## Key Features:

- Food approval: NSF H1 free of boric acid
- High chemical and thermal stability
- Excellent water and moisture resistance
- Excellent electrical insulation properties
- Constant consistency from  $-40\text{ °C}$  to  $+200\text{ °C}$
- Low evaporation and oil separation values
- Odorless, non-toxic, non-melting

## Main areas of application:

- Assembly and lubricating paste for cable systems
- Electrical insulating and protective paste
- Lubrication of moving parts of machines in food processing and packaging
- Lubrication of valves, taps, seals and O-rings
- Release and protective agents for rubber molding or metal/plastic joining

## Advantages of using the product:

- Easy application using a brush, spatula or dosing gun
- High adhesion to metal, glass, ceramic, rubber and plastic
- Water-repellent and oxidation-resistant
- Long-lasting lubrication even in humid conditions and at high temperatures

## Instructions for use:

SILISIL Paste 4 should be applied to clean and dry surfaces. Degreasing the surface may be necessary. The product can be applied with a brush, spatula, spray gun, or cartridge gun.

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### Technical data:

Characteristic	Value
<b>Consistency class (NLGI)</b>	4
<b>Temperature range</b>	-40 °C to +200 °C
<b>Penetration (60 strokes) ( mm/10)</b>	175-205 mm/10
<b>Oil separation (30 h / 200 °C)</b>	6%
<b>Evaporation (30 h / 200 °C)</b>	2%
<b>Melting point</b>	none
<b>Density (25 °C)</b>	approx. 0.98 g/cm <sup>3</sup>
<b>Dielectric strength</b>	20 kV/mm
<b>Dielectric constant (1 kHz)</b>	2.74
<b>Power factor (1 kHz)</b>	$5 \times 10^{-4}$
<b>Specific volume resistance</b>	$\geq 1 \times 10^{13} \Omega \cdot \text{cm}$
<b>boric acid-free</b>	Yes

### Compatibility:

Material / Medium	compatibility
<b>Silicone oils, phenyl trimethicone</b>	Compatible
<b>Aliphatic, aromatic, chlorinated solvents</b>	Compatible
<b>Isopropyl myristate</b>	Compatible
<b>Ethylhexyl salicylate</b>	Compatible
<b>Mineral oils</b>	Restricted
<b>Organic oils</b>	Restricted
<b>Ethanol</b>	Restricted
<b>Propylene glycol</b>	Insoluble
<b>Water</b>	Insoluble

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### **Packaging:**

- 100g tubes
- 1 kg bucket
- 25 kg bucket (standard)
- Other packaging available upon request

### **Storage and shelf life:**

- Store in original sealed containers between **+2 °C and +30 °C** .
- Protect from sun, fire and moisture.
- **Shelf life:** 60 months from the date of manufacture.

### **Safety instructions:**

Before handling the product, read the safety data sheet and ensure that you have all the information required for safe use.

### **Important NOTE:**

This document contains information provided to the best of our knowledge and belief, based on the current state of our understanding. This information is for guidance only and does not constitute any obligation on our part, particularly in the event of an infringement of third-party rights through the use of our products. This information should be supplemented by preliminary testing to ensure the product's suitability for its intended purpose.