

# SILPASTA® A, SILPASTA® E, SILPASTA® EM, SILPASTA® R, SILPASTA® P, SILPASTA® PT

## Silicone pastes

### PRODUCT DESCRIPTION

SILICONE PASTES are obtained by thickening methyl-silicone fluids with fillers. Consistency from semi-liquid

to solid, white or slightly opalescent, do not contain any lumps or mechanical impurities.

### The following types of silicone pastes are produced:

<b>SILPASTA® A</b>	vaseline consistency, slightly thixotropic
<b>SILPASTA® E</b>	vaseline consistency, thixotropic
<b>SILPASTA® EM</b>	vaseline consistency, thixotropic
<b>SILPASTA® R</b>	semi-liquid consistency
<b>SILPASTA® P</b>	vaseline consistency with good thermal conductivity
<b>SILPASTA® PT</b>	hard consistency with good thermal conductivity

### APPLICATION

#### Industrial

<b>SILPASTA® A</b>	antiadhesive agent used in thermoplastic and thermosetting processing to paste ground joints, rubber gaskets, etc.
<b>SILPASTA® E</b>	electric insulation to paste insulators, conductor connection, cable boxes in environment of high humidity or dustiness.
<b>SILPASTA® R</b>	lubricant agent during assembly of PVC pipelines.
<b>SILPASTA® EM</b>	electric insulation for mechanical application of protective layers on electric devices and connections.
<b>SILPASTA® P, SILPASTA®PT</b>	to improve thermal conduction in electrotechnical and mechanical devices.

### Silicone pastes are used in households to:

- preserve rubber gaskets in cars, fridges and freezers,
- preserve plastic products,
- mask joints, screws, etc,
- paste rubbing elements (e.g. drawers, glass cuts).

### CHARACTERISTICS

PROPERTIES / NAME	SILPASTA®A	SILPASTA® E	SILPASTA® R	SILPASTA® EM	SILPASTA® P	SILPASTA® PT
Density, g/cm <sup>3</sup>	1.02 ÷ 1.04	1.02÷1.04	0.97÷0.99	1.02 ÷ 1.04	approx. 2	ok. 2
Penetration, mm before working,	220÷ 260	180÷220	-	do 230	-	-
Penetration, mm after working,	up to300	up to 270	-	-	-	-
Working temperature, °C	from -40 to +200	from -40 to + 200	from -40 to +200			
pH of water extract	4÷6	4÷6	4÷6	4÷6	6.5÷7.5	6.5÷7.5
Dielectric constant 100 Hz	-	2.9	-	2.9	-	-
Loss tangent 100 Hz, max.	-	0.003	-	0.0006	0.05	0.05
Volume resistivity, Ω, cm, min	-	10 <sup>13</sup>	-	10 <sup>14</sup>	10 <sup>13</sup>	10 <sup>13</sup>
Breakdown voltage, kV/mm	-	approx. 30	-	approx. 30	-	-

## PROPERTIES

**Thermal resistance** of pastes is high, similarly to oil from which they are obtained. They resist to long-lasting heating in temperature 200°C, undergoing slight concentration and oil exudation.

**Chemical resistance** of pastes is also high. They are resistant to oxygen, solutions of hydrogen peroxide, dilute acid and base solutions, ammonia. They are insoluble in mineral oil, alcohol, glycol and glycerol. Pastes do not lead to swelling of plastic and rubber. Concentrated sulphurous acid, hydrofluoric acid and alkalies dissolve pastes and aromatic hydrocarbons, esters and organic halogen derivatives rinse out fluids out of pastes.

**Hydrophobic properties** of pastes are similar to the hydrophobic properties of silicone fluids and they increase once the surface covered with paste is warmed up. They are easily spread on metal surfaces increasing their corrosion resistance and reducing adhesion.

## USAGE

Spread the surface with a small amount of paste.

### Storage:

Silicone paste should be stored in original, tightly closed containers, in dry storage rooms, at temperature between -40 to +50 °C. Before use, adjust the paste to the ambient temperature for 24 hours.

### Warranty period:

18 months from the date of manufacture.

### Packaging:

1,5, 30, 200 kg

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## Producer's notes

The information contained in this document is given in good faith based on our current knowledge. However, this shall not constitute a guarantee for any specific product features. Each user bears the full responsibility for making its own determination as to the suitability of product for its own particular purpose. Because actual use of product by the user is beyond our control, such use is within the exclusive responsibility of the user, and we cannot be held responsible for any loss incurred through incorrect or faulty use of the product. For more detailed information please contact us in writing or by phone.



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