

# RHODORSIL<sup>®</sup> PASTE 4

**Description** RHODORSIL PASTE 4 is a polydimethylsiloxanic oil based silicone paste together with inert fillers.  
This paste is particularly adapted to the protection and insulation of electrical switchgear, notably in extreme temperature conditions.

- Advantages**
- **Hydrophobic.**
  - **Chemically inert.**
  - **Good dielectric properties.**
  - **Stability of properties over a wide temperature range.**
  - **Resistance to extreme temperatures: - 40°C to + 200 °C.**
  - **In conformity with MIL and NATO standards.**

- Examples of applications**
- Protection of electrical and electronic switchgear in the aeronautics industry.
  - Sealing of electric motors.
  - Protection of relays, cable connections, battery terminals, etc.
  - Static lubrication of small systems.

## Characteristics

### 1. Physical properties

Colour..... translucent to whitish

**Note:** *Slight variations in colour may occur but these do not affect the final properties of the product.*

Specific gravity at 25°C..... 1.0

Penetration worked 60 strokes, 1/10<sup>e</sup> mm, max..... 260  
(Standards NF T 6012 - ASTM D 217, DIN 51804)

Penetration unworked, 24 h-1/10<sup>e</sup> mm..... 200

Bleed after 24 h at 200°C..... < 6 %

Evaporation after 24 h at 200°C..... < 2 %

### 2. Thermal properties

Maximum continuous operating temperature, °C..... + 200

Minimum continuous operating temperature, °C..... - 40

**Note:** *These thermal properties are not restrictive: shorter exposure times, when in peak operating conditions authorise use at higher temperatures.*

Thermal conductivity 25°C, W/mK..... 0.21

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### 3. Dielectric properties

Dielectric strength, kV/mm..... > 20  
(Standards NF C 26225 - ASTM D 419 - IEC 243)

Dielectric constant at 1 kHz..... 2.6  
(Standards NF C 26230 - ASTM D 150 - IEC 250)

Power factor 1 kHz.....  $5.10^{-4}$   
(Standards NF C 26230 - ASTM D 150 - IEC 250)

Volume resistivity,  $\Omega$ .cm..... >  $1.10^{13}$   
(Standards NF C 26215 - ASTM D 257 - IEC 93)

### 4. Miscellaneous

In conformity with MIL S 8660 C Standard

#### Working procedure

It is recommended to apply **RHODORSIL PASTE 4** onto clean and dry surfaces (degreased if necessary).

**RHODORSIL PASTE 4** is applied with a brush, with a paint brush, with a spatula or with a paste gun.

**RHODORSIL PASTE 4** can be diluted in aliphatic or chlorinated solvents to facilitate its application when being applied in thin coats.

#### Packaging

- 100 g tubes on pallets of 1,600 units.
- 1 kg tubes on pallets of 192 units.
- 5 kg pails on pallets of 48 units.
- 25 kg pails on pallets of 10 units.
- 200 kg drums on pallets of 4 units.

#### Storage and shelf life

When stored in its original unopened packaging at a temperature between + 2°C and + 50°C, **RHODORSIL PASTE 4** must be used within 36 months of the manufacture date shown on the packaging. Once this expiry date is past, Bluestar Siliconi Italia S.p.a. no longer guarantees the conformity of the product with the sales specifications.

**RHODORSIL PASTE 4** should be stored in a cool, dry place.

#### Safety

Consult the Safety Data Sheet for **RHODORSIL PASTE 4**.

## RHODORSIL<sup>®</sup> PASTE 4

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