

RHODORSIL® Paste B 431

Description **RHODORSIL Paste B 431** is a polydimethylsiloxanic oil based silicone paste together with inert fillers.
This paste is particularly use for static lubrication problems, low temperature electrical insulation applications and electrical protection in aggressive atmospheres.

- Advantages**
- **Low temperature resistance (- 60°C)**
 - **Resistance to acidic atmospheres**
 - **Self-levelling paste**
 - **Chemically inert on most substances**
 - **Hydrophobic**

- Examples of applications**
- Protection of electrical equipment (on board terminal boxes, connectors) against humidity and corrosive atmospheres
 - Various low temperature sealing applications
 - Protection against the cold for formed in place gaskets
 - Lubrication of small mechanisms operating at extreme temperatures (- 60°C + 200°C) such as in air conditioning or ref rigerated chambers
 - Lubrication of aluminium on steel or of aluminium on itself

Characteristics

1. Physical properties

Colour..... translucent to whitish

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

Specific gravity at 25°C..... 1.1

Penetration worked 60 strokes, 1/10^e mm..... 360
(Standards NF T 6012 - ASTM D 217, DIN 51804)

Evaporation after 24 h at 200°C..... < 3 %

2. Thermal properties

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

Minimum continuous operating temperature, °C..... - 60

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

Thermal conductivity at 25°C, W/mK..... 0.25

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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..... 2×10^{-3}
(Standards NF C 26230 - ASTM D 150 - IEC 250)
- Volume resistivity, $\Omega \cdot \text{cm}$ $> 1.10^{13}$ (Standards NF C 26215 - ASTM D 257 - IEC 93)

Working procedure

It is recommended to apply **RHODORSIL Paste B 431** onto clean and dry surfaces (degreased if necessary).

RHODORSIL Paste B 431 is applied with a brush, with a paint brush, with a spatula or with a paste gun.

RHODORSIL Paste B 431 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 tubs on pallets of 192 units
- 25 kg pails on pallets of 10 units

Storage and shelf-life


When stored in its original unopened packaging at a temperature between + 2°C and + 50°C, **RHODORSIL Paste B 431** must be used before the expiry date shown on the packaging. Once this expiry date is past, Rhodia Silicones no longer guarantees the conformity of the product with the sales specifications.

Furthermore, **RHODORSIL Paste B 431** should be stored in a cool, dry place.

Safety

Consult the Safety Data Sheet for **RHODORSIL Paste B 431**.


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