

BLUESIL PASTE 4

Silicones

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Technical Data Sheet n° 757-V3 – 2020/01/06

Description	BLUESIL 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.
Examples of applications	<ul style="list-style-type: none"> • 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.
Key benefits	<ul style="list-style-type: none"> • 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.

Typical properties

1. Physical properties

Colour *	Translucent to whitish
Specific gravity at 25°C	1.0
Penetration worked 60 strokes, 1/10e mm (Standards NF T 6012 - ASTM D 217, DIN 51804)	< 260
Penetration unworked , 24 h-1/10e mm (Standards NF T 6012 - ASTM D 217, DIN 51804)	200
Bleed after 24 h at 200°C	< 6 %
Evaporation after 24 h at 200°C	< 2 %

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

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 at , W/mK: 0.21

3. Dielectric properties

Dielectric strength , kV/mm (Standards NF C 26225 - ASTM D 419 - IEC 243)	20
Dielectric constant at 1 kHz (Standards NF C 26230 - ASTM D 150 - IEC 250)	2.6
Power factor 1 kHz (Standards NF C 26230 - ASTM D 150 - IEC 250)	5.10 ⁻⁴

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Volume resistivity , .cm(Standards NF C 26215 - ASTM D 257 - IEC 93)	> 1.10 ¹³
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4. Miscellaneous

In conformity with MIL S 8660 C Standard.

Please note: The typical properties are not intended for use in preparing specifications. Please contact our local Sales Department for assistance in writing specifications.

Instruction of use

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

BLUESIL PASTE 4 is applied with a brush, with a paint brush, with a spatula or with a paste gun. **BLUESIL PASTE 4** can be diluted in aliphatic or chlorinated solvents to facilitate its application when being applied in thin coats.

Regulation

Please consult your local ELKEM SILICONES sales office.

Limitations

Please consult your local ELKEM SILICONES sales office.

Packaging

- BLUESIL PASTE 4 is available in
 - Piece of 1 KG (2.21 LB)
 - Drum of 200 KG (441 LB)
 - Drum of 25 KG (55.13 LB)
 - Piece of 0.1 KG (0.22 LB)

Storage and shelf life

When stored in its original packaging:

BLUESIL PASTE 4 may be stored at a temperature below 40°C / 104°F for up to 36 months from its date of manufacturing.

Comply with the storage instructions and expiration date marked on the packaging. Beyond this date, Elkem Silicones no longer guarantees that the product meets the sales specifications.

Safety

Please consult the Safety Data Sheet of:
BLUESIL PASTE 4

Warning to the users

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