

BLUESIL PASTE B 431

Description	<p>BLUESIL PASTE B 431 is a polydimethylsiloxanic oil based silicone paste together with inert fillers.</p> <p>This paste is particularly use for static lubrication problems, low temperature electrical insulation applications and electrical protection in aggressive atmospheres.</p>
Examples of applications	<ul style="list-style-type: none"> • 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 refrigerated chambers. • Lubrication of aluminium on steel or of aluminium on itself.
Key benefits	<ul style="list-style-type: none"> • Low temperature resistance (-60°C). • Resistance to acidic atmospheres. • Self-levelling paste. • Chemically inert on most substances. • Hydrophobic.

Typical properties

1. Physical properties

Colour *	Translucent to whitish
Specific gravity at 25 °C	1.1
Penetration worked 60 strokes, 1/10e mm (Standards NF T 6012 - ASTM D 217, DIN 51804)	360
Evaporation after 24 h at 200 °C	< 3 %

(*) 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: 0.25

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)	2.10 ⁻³
Volume resistivity , .cm (Standards NF C 26215 - ASTM D 257 - IEC 93)	> 1.10 ¹³

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 B 431 onto clean and dry surfaces (degreased if necessary).
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	<p>BLUESIL PASTE B 431 is applied with a brush, with a paint brush, with a spatula or with a paste gun.</p> <p>BLUESIL PASTE B 431 can be diluted in aliphatic or chlorinated solvents to facilitate its application when being applied in thin coats.</p>
Regulation	Please consult your local ELKEM SILICONES sales office.
Limitations	Please consult your local ELKEM SILICONES sales office.
Packaging	<ul style="list-style-type: none">• BLUESIL PASTE B 431 is available in<ul style="list-style-type: none">○ Piece of 1 KG (2.21 LB)○ Pail of 25 KG (55.13 LB)○ Piece of 0.1 KG (0.22 LB)
Storage and shelf life	<p>When stored in its original packaging:</p> <p>BLUESIL PASTE B 431 may be stored at a temperature below 40°C / 104°F for up to 36 months from its date of manufacturing.</p> <p>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.</p>
Safety	Please consult the Safety Data Sheet of: BLUESIL PASTE B 431

Visit our website www.elkem.com/silicones/

Warning to the users

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