

UniGrease 3000

Silicone Thermal Grease



UniGrease 3000 is a highly thermally conductive silicone grease compound. Its soft consistency and good dielectric properties enable UniGrease 3000 to be used within a wide variety of applications within the electronics industry. UniGrease 3000 is one part dispensing and paste-like in consistency. Once applied, either manually, automatically or semi-automatically UniGrease 3000 delivers low bleed properties and low volatility. The compound will maintain an optimum level of performance over a wide temperature range, ensuring components and devices within electronic equipment remain thermally connected during cycling.

Features

- Soft, silicone based thermal grease
- Thermal conductivity = 3.0 W/mK
- Exhibits low moisture, low bleed, no creep and low metallic impurity properties
- High extrusion rate inhibits insertion into small gaps manually by syringe

Availability and Storage

- Supplied in containers and syringes for manual application to a specified volume
- Unaffected by storage temperatures and stable under normal conditions for 12 months

General Properties

Property (unit)	Test Method	UniGrease 3000
Colour	Visual	Grey
Thermal Conductivity (W/mK)	ASTM D5470	3.0
Operating Temp. (°C)	In House	-50 to +200
Bleed @ 200°C for 30 hours (%)	FTM 321	0.20
Weight Loss @ 200°C for 30 hours (%)	FTM 321	0.20
Specific Gravity @ 25°C	ASTM D70	2.95

Benefits

- High thermal conductivity and dielectric properties
- Soft, paste-like consistency enabling insertion into gaps
- Thermally connects mating metal surfaces via the filling of micro air-voids thereby reducing thermal resistance
- Good dielectric strength for the protection of heat generating electrical components and devices

Recommended Uses

- Typically used as a heatsink compound within electronic industries
- Within semiconductor applications it can provide shock protection to diode elements

Electrical and Mechanical Information


Property (unit)	Test Method	UniGrease 3000
Dielectric Strength @ 1MHz in kV/mm	ASTM D149	290
Dielectric Constant @ 1MHz	ASTM D150	4.80
Volume Resistivity (Ω.cm)	ASTM D257	1.2×10^{15}
Dissipation Factor @ 1MHz	ASTM D150	3.2×10^{-3}



www.universal-science.com

UK  +44 (0) 1908 222 211 NL  +31 (0) 35 5239 209

IT  +39 (02) 395 613 61 FR  +33 (0) 1602 00276

USA  +1 440 382 1077



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