

UniGrease 1000NS

Non-Silicone Thermal Grease



UniGrease 1000NS is a synthetic based, non-silicone thermal grease compound formulated to ensure quick and efficient heat transfer.

The primary benefit of UniGrease 1000NS is its long-term stability. The material exhibits extremely low bleed and evaporation, over a wide operating temperature range and it will not dry, harden or creep. UniGrease 1000NS is suitable for use in a variety of silicone sensitive, electronic and electrical applications. The non-creep formulation of UniGrease 1000NS can extend circuit life by protecting components for a longer period.

Features

- Non-silicone thermal grease
- Thermal conductivity = 1.0 W/mK
- Synthetic based with enhanced stability for a long-term thermal solution
- Easy to apply and clean-up

Availability and Storage

- Supplied in containers and syringes for manual application to a specified volume. Semi-automatic and automatic dispensing cartridges are available
- Unaffected by storage temperatures and stable under normal conditions for a minimum of 5 years

Benefits

- Exhibits extremely low bleed and evaporation properties when within application
- Delivers excellent thermal conductivity and low thermal resistance over a wide temperature range
- Compound will not harden, leach, dry or melt

Recommended Uses

- Used where a silicone sensitive requirement exists
- Mounting semiconductor devices to a heatsink
- Mounting power resistors

General Properties

Property (unit)	Test Method	UniGrease 1000NS
Colour	Visual	Off-White
Thermal Conductivity (W/mK)	ASTM D5470	1.0
Operating Temp. (°C)	In House	-40 to +200
Bleed @ 200°C for 24 hours (%/Wt)	FTM 321	0.10
Evaporation @ 200°C for 24 hours (%)	FTM 321	0.60
Thermal Resistance @ 50°C (°C-cm²/W)	ASTM D5470	0.080

Electrical and Mechanical Information

Property (unit)	Test Method	UniGrease 1000NS
Dielectric Strength (V/0.025mm) @ 1.27mm Gap	ASTM D149	300
Dielectric Constant @ 25°C, 1MHz	ASTM D150	4.60
Volume Resistivity (Ω.cm)	ASTM D257	1.7 x 10 ¹⁴
Dissipation Factor @ 25°C, 1MHz	ASTM D150	0.003
Specific Gravity @ 25°C	ASTM D70	2.70
Flow Rate (grams/min)	In House	4 to 6.5

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Military



PSU



Aerospace



LED

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