

UniGrease 900NS

Non-Silicone Thermal Grease



UniGrease 900NS is a non-silicone thermal grease compound especially formulated for high temperature, silicone sensitive applications.

UniGrease 900NS is 100% synthetic based and delivers high thermal conductivity, in combination with low bleed and evaporation properties over a wide operating temperature range. UniGrease 900NS will maintain optimal performance within operating conditions of up to 250°C, this makes UniGrease 900NS ideal for an application where there is an intentional heat source within the device such as a heating element.

Features

- Non-silicone thermal grease
- Thermal conductivity = 0.9 W/mK
- Low volatility and low bleed, even at elevated temperatures of up to 250°C
- Good dielectric properties

Availability and Storage

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

Benefits

- Thermally couples two imperfectly mating surfaces by removing air voids at the interface thereby reducing thermal resistance to a minimum
- No bleed or evaporation and excellent thermal conductivity

Recommended Uses

- Typically used where a silicone sensitive requirement exists
- Especially appropriate for extreme heat generating applications
- High temperature power distribution circuits

General Properties

Property (unit)	Test Method	UniGrease 900NS
Colour	Visual	White
Thermal Conductivity (W/mK)	ASTM D5470	0.90
Operating Temp. (°C)	In House	-40 to +250
Bleed @ 200°C for 24 hours (%/Wt)	FTM 321	0.20
Evaporation @ 200°C for 24 hours (%)	FTM 321	0.50
Thermal Resistance @ 50°C (°C-cm ² /W)	ASTM D5470	0.320

Electrical and Mechanical Information


Property (unit)	Test Method	UniGrease 900NS
Dielectric Strength (V/0.025mm) @ 1.27mm Gap	ASTM D149	350
Dielectric Constant @ 1MHz	ASTM D150	5.0
Volume Resistivity (Ω.cm)	ASTM D2240	7.1 x 10 ¹³
Specific Gravity @ 25°C	ASTM D70	2.30
Dissipation Factor @ 25°C 1MHz	ASTM D150	0.002



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