

UniGrease 5000NS

Non- Silicone Thermal Grease



UniGrease 5000NS is a highly conductive thermal grease. UniGrease 5000NS is metal-filled which allows the compound to deliver a superb level of thermal conductivity at 5W/mK. In combination with this outstanding thermal conductivity UniGrease 5000NS is easy to apply and spread, facilitating low bond line thickness for reduced thermal resistance. The compound exhibits very low bleed properties and will not pump out or phase separate within typical application conditions. UniGrease 5000NS has a wide operating temperature range and can withstand temperatures of 200°C for short periods.

Features

- Highly conductive, non- silicone thermal grease
- Thermal conductivity = 5.0 W/mK
- Metal-filled, non-reactive compound
- Exhibits low bleed and low evaporation properties

Availability and Storage

- Supplied in jars and syringes for manual application to a specified volume
- Containers and other bulk packaging are available
- No special storage requirements and no known shelf-life

General Properties

Property (unit)	Test Method	UniGrease 5000NS
Colour	Visual	Grey/Black
Thermal Conductivity (W/mK)	ASTM D5470	5.0
Operating Temp. (°C)	In House	-35 to 200
Specific Gravity @ 25°C	ASTM D70	2.6
Thermal Resistance @ 50°C (°C-cm ² /W)	ASTM D5470	0.0365

Benefits

- Extremely high thermal conductivity for efficient maximisation of thermal transfer to a heatsink or nearby metal work
- No volatile content and excellent humidity resistance
- Wide operating temperature range and capable of withstanding 200°C for brief intervals

Recommended Uses

- Typically used as a heatsink compound within the electronics and electrical industries
- Digital signal processing cooling
- High power LED applications

Mechanical Information


Property (unit)	Test Method	UniGrease 5000NS
Bleed @ 200°C for 24 hours (%/Wt)	FTM 321	0.35
Evaporation @ 200°C for 24 hours (%/Wt)	FTM 321	0.55
Flow Rate (grams/min)	In House	5 – 8



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



This material is often used in these industries:



Military



LED



Automotive



PSU

Information furnished by Universal Science regarding technical data is believed to be accurate and reliable but our customers bear the responsibility in assessing fitness for purpose. Universal Science makes no warranties as to the fitness, merchantability or suitability of any materials or products for any uses. Universal Science shall not be liable for damages of any kind. Universal Science terms and conditions of sale apply.