

Thermoset™ TC-415 Thermally Conductive Grease

Description

LORD Thermoset™ TC-415 thermally conductive grease is a non-reactive, solvent-free silicone material designed for applications where a highly conductive thermal interface material is required and where the device may later need to be easily removed from the heat sink. Thermoset TC-415 grease is stencil printable on copper substrates.

Application

Mixing – When not stored in a syringe, thoroughly mix grease before using.

Applying – Before use with dispensing equipment, allow grease to be warmed to room temperature (ideally 20-25°C). Allow grease to warm by placing syringe in a vertical (upright) position with dispense tip facing downward in an ambient environment. Consult handling instructions for specific guidelines.

Mount syringe onto the dispensing equipment that has been thoroughly cleaned and purge grease through the system until an unbroken flow of grease is extruded. The system is now ready to begin dispensing.

Cleanup – Disposable containers and utensils are recommended when working with greases. However, when disposable materials are impractical, grease can be removed by cleaning equipment with water or aqueous detergent solutions. Aqueous- and solvent-cleaned utensils should be thoroughly dried before reuse; any remaining solvent can contaminate the next application.

Shelf Life/Storage

- **Material Stored in Syringe**
Shelf life is six months from date of manufacture when stored at -30°C in original, unopened syringe. Syringe must be maintained at -30°C in a vertical (upright) position with the dispense tip facing down. Do not store syringe on its side (horizontally).

This material is shipped and stored frozen. Consult handling instructions for thawing.
- **Material to be Remixed**
Shelf life is six months from date of manufacture when stored at 25°C in original, unopened container.

General Properties*

Appearance	Gray Paste
Viscosity, cps @ 25°C, 10 sec ⁻¹	170,000
Specific Gravity	2.9
Bleed, % 24 hours @ 150°C	–
Weight Loss, % 24 hours @ 150°C	–
Thermal Conductivity, W/mK	5.0

*Data is typical, based on a small number of pre-production batches, and not to be used for specification purposes.

LORD PRE-PRODUCTION PROPERTIES SHEET

Cautionary Information

Before using this or any LORD product, refer to the Material Safety Data Sheet (MSDS) and label for safe use and handling instructions.

For industrial/commercial use only. Must be applied by trained personnel only. Not to be used in household applications. Not for consumer use.

Values stated in this property sheet represent typical values as not all tests are run on each lot of material produced. For formalized product specifications for specific product end uses, contact the Customer Support Center.

Information provided herein is based upon tests believed to be reliable. In as much as LORD Corporation has no control over the manner in which others may use this information, it does not guarantee the results to be obtained. In addition, LORD Corporation does not guarantee the performance of the product or the results obtained from the use of the product or this information where the product has been repackaged by any third party, including but not limited to any product end-user. Nor does the company make any express or implied warranty of merchantability or fitness for a particular purpose concerning the effects or results of such use.

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LORD Corporation **World Headquarters**

111 Lord Drive
Cary, NC 27511-7923
USA

Customer Support Center (in United States & Canada)
+1 877 ASK LORD (275 5673)

www.lord.com