

CoolTherm™ SC-6754 Silicone Grease

Description

LORD CoolTherm™ SC-6754 grease is a one-component silicone material used to provide a thermal path between semiconductors and heat sinks by displacing the air gap between the mating surfaces. It is also used as a non-curing, shock resistant sealant between the semiconductors and heat sink.

Features and Benefits

High Reliability – provides excellent resistance to water and temperature cycling; provides shock and vibration protection.

Broad Temperature Range – can be used on parts and devices that experience continuous operating temperatures from -55°C to +205°C.

Electrically Insulative – provides high dielectric strength and excellent electrical insulation properties, insuring efficient heat transfer.

Application

Surface Preparation – To prevent a possible electrical breakdown due to contamination, clean both the semiconductor and mating heat sink surfaces with toluene or other suitable solvent.

Applying – Spread or brush grease over entire semiconductor surface before mounting.

Shelf Life/Storage

Shelf life is one year from date of manufacture when stored at 25°C in original, unopened container.

Typical Properties*

Appearance	White Paste
Viscosity, cps @ 25°C	500,000
Specific Gravity	2.3
Bleed, % 24 hours @ 200°C	Nil
Weight Loss, % 24 hours @ 200°C	0.6
Thermal Conductivity, W/mK	0.5
Volume Resistivity, ohm-cm @ 25°C	1×10^{14}
Dielectric Strength, V/mil	300
Dielectric Constant @ 25°C 1 kHz	4.1
Dissipation Factor @ 25°C 1 kHz	0.008

*Data is typical and not to be used for specification purposes.

LORD TECHNICAL DATA

Cautionary Information

Before using this or any LORD product, refer to the Safety Data Sheet (SDS) 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 technical data 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.

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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

For a listing of our worldwide locations, visit LORD.com.