



Tgrease™ 300X

High Performance Thermal Grease

HIGH PERFORMANCE THERMAL GREASE



Tgrease™ 300X is a silicone-based thermal grease for use with high performance CPUs and GPUs. It has a high thermal conductivity of 3.0 W/mK and superior wetting characteristics, resulting in very low thermal resistance and excellent long-term reliability. Tgrease 300X has been formulated with a high thixotropic index. It does not sag or drip enabling easier pump and syringe dispensing.

FEATURES AND BENEFITS

- Low thermal resistance
- Excellent long-term stability
- Resists pump out through novel gel technology
- RoHS compliant
- Available in 1kg (quart container), cartridges and custom syringes

MARKETS

- Computer CPUs and GPUs
- Telecommunications infrastructure
- Network hardware
- Automotive electronics
- Consumer electronics

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	
Color	Gray	Visual
Density	2.69 g/cc	Helium Pycnometer
Viscosity	400,000 cP	Brookfield DV-II Helipath Spindle T-F 20 RPMs
Thixotropic Index	3.35	Brookfield Viscometer RPMs
Thermal Resistance		
@ 10 psi	0.024 °C-in ² /W	ASTM D5470 (modified)
@ 68.9 kPa	0.155 °C-cm ² /W	
@ 50 psi	0.013 °C-in ² /W	ASTM D5470 (modified)
@ 344.7 kPa	0.084 °C-cm ² /W	
Thermal Conductivity	3.0 W/mK	Hot Disk Thermal Constants Analyzer
Bond Line Thickness	0.001 in (25 microns)	

Above data is for design engineer's guidance only. Observed performance varies in application. Engineers are reminded to test the material in application.

STORAGE

Store between 15 and 45 °C and a maximum humidity of 50 %. Do not store in freezer or refrigerator below 5 °C.

APPLICATION

For easiest application, screen print using a mesh of 61 treads per inch (TPI) or less. Tgrease 300X has also been successfully applied using up to a 140 TPI mesh (the higher the number, the smaller the mesh opening). If applying from a can, mix well prior to use. Tgrease 300X can also be dispensed either manually or robotically via syringe or cartridge.

THR-DS-Tgrease-300X 0120

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