

NYSTEIN Thermal Grease **Flextein®** TG5050

Technical Data Sheet

Product Description:

Flextein TG5050 is a 5.0 W/m·K high performance thermal grease. This silicone based material is environmental friendly and designed to solve overheating or reliability issues. Its excellent wetting to the interfaces can offer premier low thermal resistance of 0.03 °C·cm²/W (@ 50 psi). This material is suitable for screening or dispensing process.

Features & Benefits:

- Thermal conductivity 5.0 W/m·K
- Thermal resistance 0.03 °C·cm²/W (@ 50 psi)
- Ultra low oil separating rate
- Stable and conform to environmental requirements including RoHS.



Typical Properties:

Typical Property	TG5050	Unit	Test Method
Color	Gray	-	Visual
Min. Bond Line Thickness	0.03	mm	Nystein
Thermal Conductivity	5	W/m · K	ISO 22007-2
Thermal Resistance	0.03	°C·cm ² /W (@ 50 psi)	ASTM D5470
Viscosity	350000	cps	GB/T269
Density	2.7	g/cm ³	ASTM D792
Volume Resistivity	$\geq 1.0 \times 10^{12}$	$\Omega \cdot \text{cm}$	ASTM D257
Operating Temp	-40 to 150	°C	Nystein
Flammability Rating	V-0	-	UL94
RoHS Compliance	Yes	-	Nystein

Typical Application:

- Computer processor CPU
- Chips and chipsets
- LED lighting devices
- GPU
- LCD
- Storage devices
- Other heat sink modules

Configuration Available:

- 1kg, 2kg,10kg pail.

Storage conditions:

- Sealed and stored in dry place, away from light.
- Shelf life is 12 months at recommended storage temperature: 25°C (±3) and humidity: 50% (±10)
- The materials may be contaminated when unsealed, please do not mix the used material with the sealed products. Nystein does not assume any responsibility for contaminated products or conditions other than the required storage conditions.
- For additional information, please contact your appropriate sales, technical support, or customer service representative promptly.

Declare

The information provided in this Technical Data Sheet (TDS), including product use and application recommendations, is based on our knowledge and experience with Nystein China products. The data contained in this TDS is for informational purposes only and is believed to be reliable. To obtain official product specifications for a specific product end use, please contact the sales, Application Engineer or customer service person with whom you are in contact.

We are not responsible for results obtained by others using methods beyond our control. This product may have a variety of applications and different operating conditions in your environment that are beyond our control. Therefore, Nystein China assumes no responsibility for the suitability of our products for the processes and conditions under which you will use them and for the intended applications and results. We strongly recommend that you conduct tests to confirm the suitability of our products prior to their use.

This product is protected by one or more of Nystein China Chinese patents or patent applications.