

NYSTEIN Thermal Grease Flextein® TG5020

Technical Data Sheet

Product Description:

Flextein TG5020 is a 2.0 W/m·K interface grease with great thermal performance. It is environmentally safe silicone-based thermal grease designed to solve overheating and reliability issues, can thoroughly wet out contact surfaces to create a low thermal resistance of 0.03 °C·in²/W (@ 50 psi), and can be used in pneumatic dispensing and screen printing systems.

Features & Benefits:

- Thermal conductivity 2.0 W/m·K
- Thermal resistance 0.03 °C·in²/W (@ 50 psi)
- Wets out contact surfaces thoroughly to create a low thermal resistance
- Stable, meets all environmental requirements including RoHS.



Typical Property Data:

Property	Unit	Parameter	Test Method
Appearance	--	Grey	Visual
Min. Used Thickness	mm	0.08	ASTM D374
Thermal Conductivity	W/m · K	2.0	ISO 22007-2
Density	g/cm ³	2.8	ASTM D792
Viscosity	cps	80,000	ASTM D2196
Thermal Resistance	@50 psi °C·in ² /W	0.03	ASTM D5470
Dielectric Strength	kV/mm	≥6.0	ASTM D149
Volume Resistivity	Ω ·cm	≥ 1.0 × 10 ¹²	ASTM D257
Service Temp	°C	-40 to 150	Nystein
Flame Rating	—	V-0	94 UL
RoHS	—	Yes	Nystein

Typical Application:

- CPUs (Notebooks, Desktops, Servers)
- Custom ASICS Chips
- Microprocessors / Graphics Processors
- North-bridge Chipsets
- Integrated Gate Bipolar Transistors (IGBT)

Configuration Available:

- 1kg, 2kg,10kg pail.

Storage conditions:

- Sealed at room temperature away from light, and stored in a dry place.
- Best Storage conditions: Temperature: 25°C (± 3), Humidity: 50% (± 10), can be stored for 12 months.
- The materials taken out after opening may be contaminated during use, so please do not mix contaminated products with unopened products. Nystein assumes no 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.