

NYSTEIN Thermal Gel Flextein® TG845F

Technical Data Sheet

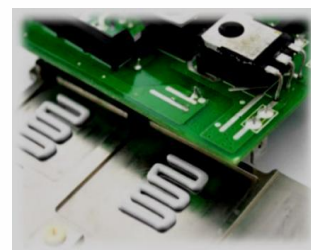
Product Description:

Flextein TG845F is a high performance flowable thermally conductive interface material with ultra low volatile, which is designed for thermal modules or components with large dimension variations. The inherent tackiness can make it remain in place without any adhesive layer. Its excellent wetting and reliable performance can help the mating parts sufficient contact to improve the efficiency of heat transfer. This material can be directly dispensed between the heaters and the heat sinks, and is ideal to replace thermal pad or grease with excellent thermal conductivity and reduced cost.

Unlike thermally conductive grease, Flextein TG845F has no settling or bleeding issue, and is suitable for automatic dispensing equipment.

Features & Benefits:

- Thermal conductivity 4.5 W/m·K
- Ultra-low volatile
- Excellent durable and reliability after cured
- Easily dispensing, high flexibility
- Extreme low stress and low thermal resistance



Typical Property Data:

Typical Property	TG845F	Unit	Test Method
Color	Dark grey	-	Visual
Min. Used Thickness	0.15	mm	Nystein
Extrusion Rate	35	g/min	Nystein
Thermal Conductivity	4.5	W/m · K	ISO 22007-2
Thermal Resistance	0.052 °C·in ² /W	@50 psi	ASTM D5470
Density	3.05	g/cm ³	ASTM D792
Dielectric Strength	≥6.0	KV/mm	ASTM D149
D3-D20	0	ppm	Nystein
Volume Resistivity	≥ 1.0 × 10 ¹²	Ω · cm	ASTM D257
Operating Temp	-40 to 150	°C	Nystein
Flame Rating	V-0	-	UL 94
RoHS Compliance	Yes	-	Nystein

Typical Application:

- Consumer electronics, communication equipments
- Tablets, multimedia devices
- Desktops, portable computers and servers

- LED lighting equipments
- 5G optical module
- Optical fibre communication equipments
- Automotive electronics
- Fragile components
- Military electronics equipments

Configuration Available:

- 30cc, 55cc, 300cc Syringe.
- 1kg, 10kg pail.

Storage conditions:

- Sealed and stored in dry place, away from light.
- Shelf life is 12 months at recommended storage temperature: 25°C (± 5) 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.