

NYSTEIN Thermal Gel Flextein® TG892CF

Flextein TG892CF is a high performance thermally conductive gel material that can be cured in place at high temperature without volatilizing condensation mist. It is specifically designed for automatic dispensing & assembly applications. After curing, it can become a gasket like material with ultra high thermal conductivity, and convenient to be reworked & repaired, which is suitable for thermal modules or components with large dimension variations. The inherent tackiness can make it remain in position 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.

Features & Benefits:

- Thermal conductivity 12.0 W/m · K
- Extreme low stress and low thermal resistance
- No volatile condensation mist at high temperature
- Easy to be reworked and repaired
- Easily dispensing, high flexibility, ideal replacement for the conventional thermal pad and grease
- No movement with high reliability



Typical Properties:

Typical Property	TG892CF	Unit	Test Method
Color	Green	-	Visual
Min. Used Thickness	0.3	mm	Nystein
Extrusion Rate	30	g/min	Nystein
Hardness	50	Shore OO	ASTM D2240
Operating Time	>8(@25℃)	h	Nystein
Curing Time	20(@100℃)	min	Nystein
Thermal Conductivity	12.0	W/m · K	ISO 22007-2
Thermal Resistance	0.04 °C·in ² /W	@50 psi	ASTM D5470
Density	3.15	g/cm ³	ASTM D792
Dielectric Strength	≥6.0	KV/mm	ASTM D149
D3-D20	<30	ppm	Nystein
Volume Resistivity	≥ 1.0 × 10 ¹²	Ω · cm	ASTM D257
Service Temp	-40 to 150	°C	Nystein
Flame Rating	V-0	-	94UL
RoHS	Yes	-	Nystein

Typical Application:

- Consumer electronics, communication equipments
- Tablets, multimedia devices
- Desktops, portable computers and servers
- LED lighting equipments
- Printed circuit board components, enclosure connection
- 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 6 months at recommended storage temperature: under 5℃.
- 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.

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