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 conducticity, 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 ℃·in²/W	@50 psi	ASTM D5470
Density	3.15	g/cm³	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	℃	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.