



NYSTEIN Thermal GEL Flextein® MG700

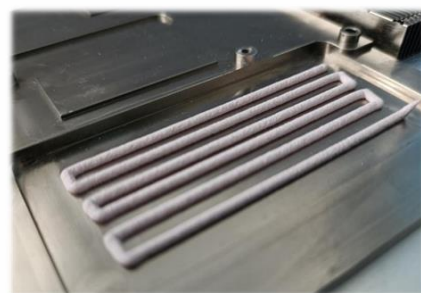
Technical Data Sheet

Product Description:

Flextein® MG700 is a two-component thermal gel material with a thermal conductivity of 7W/m-K. It can be dispensed automatically to fill in applications requires heat transfer with challenging geometries. Due to low viscosity and excellent thixotropic properties, Flextein® MG700 can be dispensed in high volumes with no settling or clumps, which provides physical stability for optimized processing. This material can be used in electronic devices for an alternative to thermal pads.

Features & Benefits:

- Thermal conductivity 7.0 W/m · K
- Cured at room temperature or elevated temperature
- No by-products after curing, soft and no volume shrinkage
- Low viscosity, high extrudability
- Excellent aging resistance



Typical Properties:

Property	Unit	MG700	Test Method
Appearance	—	Part A : Grey	Visual
		Part B: White	
Mix Ratio	by weight or volume	1:1	—
Viscosity	Pa.s	300	ASTM D2196
		300	
Pot Life at RT	min	60	Nystein
Cure Schedule	hr	0.5 @100°C	Nystein
		12 @25°C	
Thermal Conductivity	W/m · K	7	ISO 22007-2
Hardness	Shore OO	60	ASTM D2240
Density	g/cm ³	3.3	ASTM D792
Tensile Strength	MPa	0.02	ASTM D412
Elongation	%	≥30	ASTM D412
Dielectric Strength	kV/mm	≥8.0	ASTM D149
Volume resistivity	Ω · cm	≥1.0×10 ¹³	ASTM D257
BLT	um	200	Nystein
Conetents of D3~D20	ppm	< 30	Nystein
Flammability	—	V-0	UL 94
Opertating Temp.	°C	-40 to 150	Nystein

**Typical Application:**

- Telecommunications, Communication Equipment
- Automotive Electronics
- New Energy, Energy Storage
- Industrial Electronics

Configuration Available:

- 50cc、400cc cartridge.
- 50kg group: A component 25kg/barrel, B component 25kg/barrel.

Storage conditions:

- Sealed & stored at room temperature away from light, and stored in a dry place.
- Shelf life is 6 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 recommended storage.
- 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.

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