

THERM-A-GAP™ GEL 25NS

High Performance Fully Cured Dispensable GEL



Customer Value Proposition:

Parker Chomerics THERM-A-GAP GEL 25NS is a one component, dispensable thermal interface material with 2.5 W/m-K thermal conductivity developed to conduct heat from electronics to a heat sink or enclosure. This non-silicone thermal gel, hence the "NS" moniker, is ideal for applications where silicone contamination is an issue and requires no mixing or curing.

THERM-A-GAP GEL 25NS requires low compressive force to deform under assembly pressure subjecting components, solder joints and leads to minimal stresses.

It is formulated to accommodate today's high performance electronics and is ideal for automated dispensing machines, rework and field repair situations.



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Features and Benefits: Typical Applications:

- Thermal conductivity: 2.5 W/m-K
- Easily dispensed
- No secondary curing required
- Low thermal impedance
- Ultra-low compression force
- Reworkable
- Non-silicone
- Telecom base stations
- Power supplies and semiconductors
- Memory and power modules
- Microprocessors
- Central processing units (CPUs)

Packaging and Handling:

Material may be packaged in syringes, cartridges or bulk packaged in pails.



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Product Information

THERM-A-GAP GEL 25NS

Typical Properties*		GEL 25NS	Test Methods
Physical	Color	Yellow	Visual
	Flow Rate, g/min - 30cc syringe with no tip, 0.100" orifice, 90psi (621 kPa)	15	Chomerics
	Specific Gravity	2.6	ASTM D792
	Typical minimum bondline thickness, in (mm)	0.004 (0.11)	Chomerics
Thermal	Thermal Conductivity, W/m-K	2.5	ASTM D5470
	Heat Capacity, J/g-K	0.96	ASTM E1269
	Coefficient of Thermal Expansion, ppm/K	< 300	ASTM E831
	Operating Temperature Range °F (°C)	-58 to 257 (-55 to 125)	Chomerics
Electrical	Dielectric Strength, Vac / mil (kVac/mm)	200 (8.0)	Chomerics
	Volume Resistivity, ohm-cm	10 ¹⁴	ASTM D257
	Dielectric Constant @ 100 kHz	6.7	ASTM D150
	Dissipation Factor @ 100 kHz	0.018	Chomerics
Regulatory	Flammability Rating	V-0	UL 94
	RoHS Compliant	Yes	Chomerics Certification
	Outgassing, % TML, % CVCM	0.23, 0.04	ASTM E595
	Shelf Life, months from date of manufacture	12	Chomerics

* Typical properties: these are not to be construed as specifications.

Part Number	Standard Fill Volume (cc)	Standard Fill Mass (g)	Description
65-00-GEL25NS-0010-M	10	26	10cc manual dispense syringe
65-00-GEL25NS-0030-M	27	70	30cc EFD plastic cartridge
65-00-GEL25NS-0055-M	52	135	55cc EFD plastic cartridge
65-00-GEL25NS-0180-M	150	390	6oz SEMCO plastic cartridge
65-00-GEL25NS-0300-M	290	750	Aluminum caulking cartridge
65-00-GEL25NS-0610-M	570	1,480	20oz SEMCO plastic cartridge
65-00-GEL25NS-9KG-M	3,300	8,580	1 US gal. pail

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