



HEAT TRANSFER COMPOUNDS

PRODUCT SELECTION CHART

Product	T-3	T-99	SnapTrace®	T-85	NH Nonhardening
Application	Provide an efficient thermal connection between the tracer and the process equipment where high temperature maintenance is required. Also used with Thermon's ChannelTrace™ system featuring TFK channels.	Preformed compound designed for rapid, consistent installation under TFK channel on straight runs of piping.	Suitable for use in areas of extreme moisture and/or corrosive environments with low to medium exposure temperatures. These products are particularly suited for valves and similar equipment.	Used where periodic disassembly is necessary or for plate-type heating coils.	
Maximum Exposure Temperature	454°C (850°F)	1204°C (2,200°F)	232°C (450°F)	232°C (450°F)	210°C (410°F)
Minimum Exposure Temperature	-196°C (-320°F)	0°C (32°F)	-65°C (-85°F)	-196°C (-320°F)	-196°C (-320°F)
Minimum Installation Temperature	0°C (32°F)	0°C (32°F)	-10°C (14°F)	Ambient 0°C (32°F) Product 10°C (50°F)	Ambient 0°C (32°F) Product > 25°C (77°F)
Heat Transfer Coefficient, U_t Heater to Surface	114-227 w/m ² ·°C (20-40 Btu/hr·°F·ft ²)	85-170 w/m ² ·°C (15-30 Btu/hr·°F·ft ²)	114-227 w/m ² ·°C (20-40 Btu/hr·°F·ft ²)	114-227 w/m ² ·°C (20-40 Btu/hr·°F·ft ²)	114-227 w/m ² ·°C (20-40 Btu/hr·°F·ft ²)
Bond Strength	> 1380 kPa (> 200 lb/in ²)	> 2760 kPa (> 400 lb/in ²)	> 1380 kPa (> 200 lb/in ²)	>13,800 kPa (> 2,000 lb/in ²)	N/A
Start-Up Technique	No special curing procedure required if installed with TFK channels. See Installation Procedures.	Must be heated to 93°C (200°F) to promote surface wetting and adhesion.	T-85 cures in 4-12 hours at 100-121°C (212-250°F).	No special curing procedure required.	
Method of Installation	Hand trowel or use with TFK channel (Carbon steel tube tracers are not recommended. Primer must be applied to aluminum surfaces)	Use with TFK channel	Cartridge applicator (300 ml) Hand trowel (4 liter pails)	Hand trowel on plate-type heating coils	
Water Soluble	Yes	No	No	No	
Shelf Life	18 months (if stored below 49°C/120°F)	Indefinite (if stored below 49°C/120°F)	1 year (if stored below 30°C/86°F)	Indefinite (if stored below 49°C/120°F)	
Container Size	1 gallon (3.79-liter) pail 5 gallon (18.93-liter) pail	1 gallon (3.79-liter) pail	300 ml (10.1 oz) cartridge 4 liter (1.06 gallon) pail	1 gallon (3.79-liter) pail	
Density	Specific Gravity = 1.7	Specific Gravity = 2.2	Specific Gravity = 1.4	Specific Gravity = 1.2	

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