



PRODUCT SPECIFICATIONS

# T-3 HEAT TRANSFER COMPOUND

**APPLICATION**

T-3 heat transfer compound creates an efficient thermal bond between a steam or electric heater and process pipes or equipment. A single Thermonized steam tracer utilizing Thermon’s heat transfer compound is more cost effective than a contoured clamp-on jacket and has the equivalent performance of three (or more) bare tracers.

T-3 is typically utilized for applications with maximum exposure temperatures of 454°C (850°F). To minimize waste and speed installation, use Thermon’s ChannelTrace™ system featuring TFK channels. The ChannelTrace system provides protection prior to installation of thermal insulation and invites no special curing procedure for the T-3 heat transfer compound. (Refer to the back of this specification sheet for details.)

**SPECIFICATIONS/RATINGS**

T-3-1 .....	3.79-liter (1-gallon) pail
T-3-2 .....	7.58-liter (2-gallon) pail
T-3-5 .....	18.93-liter (5-gallon) pail
Maximum exposure temperature (ASTM E2550)	.....454°C (850°F)
Minimum exposure temperature .....	-196°C (-320°F)
Minimum installation temperature .....	0°C (32°F)
Heat transfer coefficient, Ut, tracer to pipe wall	..... 114-227 W/m <sup>2</sup> • °C (20-40 Btu/hr • °F • ft <sup>2</sup> )
Nominal electrical resistivity.....	0.86 ohms-cm (0.34 ohms-inch)
Shelf life (unopened) .....	1 year
Bond Strength (ASTM D1002) .....	> 1380 kPa (> 200 lbs/in <sup>2</sup> )
Water Soluble Chlorides (ASTM C1218).....	< 100 ppm
Water-soluble.....	yes

**BENEFITS**

- Increase heat transfer rates significantly over bare tracing (VAFE), reducing number of tracers and steam traps
- Fewer steam tracers reduce installation time; ChannelTrace eliminates waste
- Water-soluble for easy cleanup
- Requires no special curing procedure for tracing under TFK channels



**DESCRIPTION**

T-3 is a heat transfer compound that hardens when cured.

**OPTIONS**

TFK steel channel provides additional protection for a Thermonized tracer prior to the insulation of the pipe or equipment.

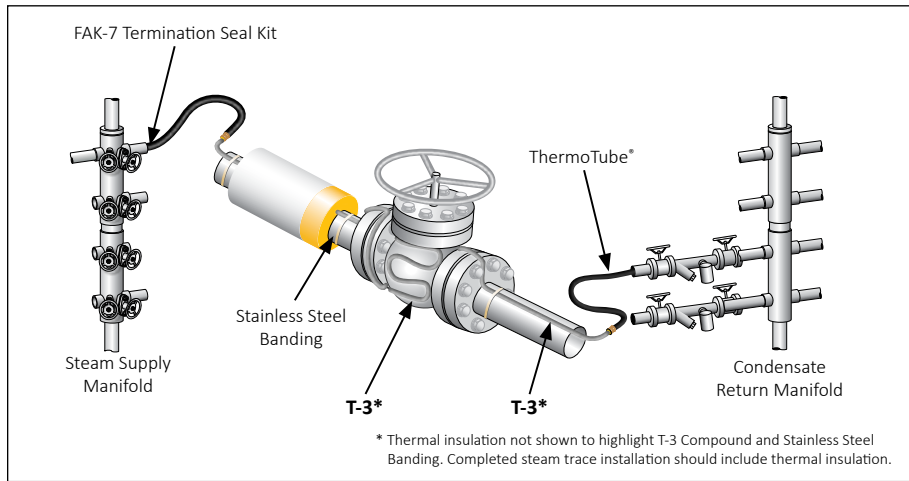
Banding and tools to secure steam tracing (TFK channel and/or tubing) to pipe or equipment.



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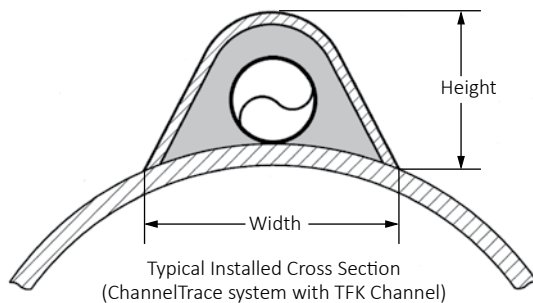
## TYPICAL STEAM TRACING SYSTEM



## TFK CHANNEL SPECIFICATIONS

Catalog Number	Nominal TFK Channel Dimensions (See Cross Section Below)				
	Width mm (in)	Height mm (in)	Length m (ft)	Thickness mm (in)	Channel Material
TFK-4	30 (1.18)	21 (.84)	1.2 (.04)	1.0 (.04)	Rigid Galvanized Steel
TFK-6	51 (2.00)	25 (1.00)	1.2 (.04)	0.7 (.03)	Flexible Stainless Steel
TFK-7	41 (1.62)	25 (1.22)	1.2 (.04)	1.0 (.04)	Rigid Galvanized Steel
TFK-8	17 (0.66)	19 (.75)	1.2 (.04)	1.0 (.04)	Rigid Galvanized Steel
TFK-9	64 (2.50)	44 (1.75)	1.2 (.04)	1.6 (.06)	Rigid Galvanized Steel

**Note:** Galvanized TFK channels are used up to 210°C (410°F). Use optional stainless steel channels for higher temperatures.



## BASIC ACCESSORIES



**Stainless Steel Banding** used to secure tracer to piping.

**ALP-1** dielectric coating applied to aluminum pipe prior to T-3 compound application.

**T2SSB** (.50" x .020") for 3/8" and 1/2" O.D. tube tracers.

**T3SSB** (.50" x .030") for 3/4" and 1" O.D. tube tracers and NPS pipe tracers.

**T34PB-CR** crimp seals for fastening tensioned banding.

**C001** banding tool for applying tension to T2SSB or T3SSB banding.

**1950A** crimping tool for T34PB-CR seals.



### TFK Channels for ChannelTrace Systems

**TFK-4** for 3/8" or 1/2" O.D. tubing.

**TFK-6** flexible stainless steel for 3/8" - 3/4" tubing.

**TFK-7** for 3/4" O.D. tube or 1/2" NPS pipe tracers.

**TFK-8** for 3/8" tubing on small process lines.

**TFK-9** for 1" O.D. tube or 1" NPS pipe tracers.

(Galvanized steel is standard for rigid channels—contact Thermon for optional stainless steel)



**ThermoTube** pre-insulated tubing used for steam supply and condensate return lines. Available in various materials and ratings. See Form TSP0009 for more info.