

## **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 371°C (700°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-3-13.79-liter (1-gallon) pail T-3-5
Maximum exposure temperature (ASTM C447)
Minimum exposure temperature196°C (-320°F)
Minimum installation temperature
Heat transfer coefficient, Ut, tracer to pipe wall
114-227 W/m² • °C (20-40 Btu/hr • °F • ft²)
Nominal electrical resistivity 0.86 ohms-cm
(0.34 ohms-inch)
Shelf life (unopened)
Bond Strength (ASTM D1002)> 1380 kPa
(> 200 lbs/in <sup>2</sup> )
Water Soluble Chlorides (ASTM C1218)
Water-solubleyes

### **BENEFITS**

- Increase heat transfer rates significantly over bare tracing, 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**

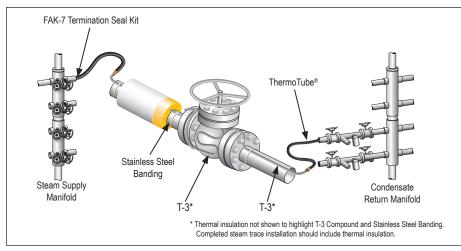
TFK steel channel provides additional protection for a Thermonized tracer prior to the insulation of the pipe or equipment.

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

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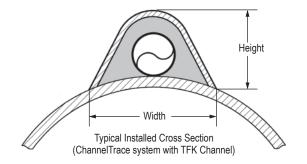
## **TYPICAL STEAM TRACING SYSTEM**



### **TFK CHANNEL SPECIFICATIONS**

Nominal TFK Channel Dimensions (See Cross Section Below)						
Catalog Number	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.
T2SSB (.50" × .020") for 3/8" and 1/2" O.D. tube tracers.
T3SSB (.50" × .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.

 $\ensuremath{\text{TFK-6}}$  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.