

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 ChannelTraceTM 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-3-518.93-liter (5-gallon) pail					
Maximum exposure temperature (ASTM C447)					
454°C (850°F)					
Minimum exposure temperature196°C (-320°F)					
Minimum installation temperature0°C (32°F)					
Heat transfer coefficient, Ut, tracer to pipe wall					
114-227 W/m ² · °C (20-40 Btu/hr · °F · ft ²)					
Nominal electrical resistivity 0.86 ohms-cm					
(0.34 ohms-inch)					
Shelf life (unopened)18 months					
Bond Strength (ASTM D1002)> 1380 kPa					
(> 200 lbs/in ²)					
Water Soluble Chlorides (ASTM C1218)< 100 ppm					
Water-solubleyes					

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.

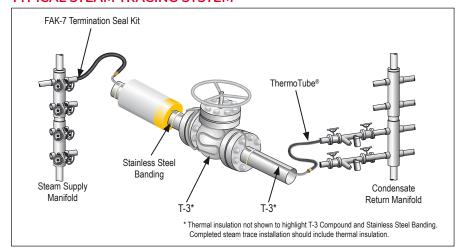
Banding and tools to secure steam tracing (TFK channel and/or tubing) to pipe or equipment.

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



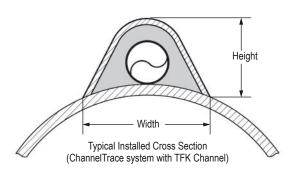
TYPICAL STEAM TRACING SYSTEM



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" \times .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

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 TC-E 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.