



PRODUCT DATASHEET

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 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-3-1	3.79-liter (1-gallon) pail
T-3-5	18.93-liter (5-gallon) pail
Maximum exposure temperature (ASTM C447)	371°C (700°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 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-soluble	yes

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.

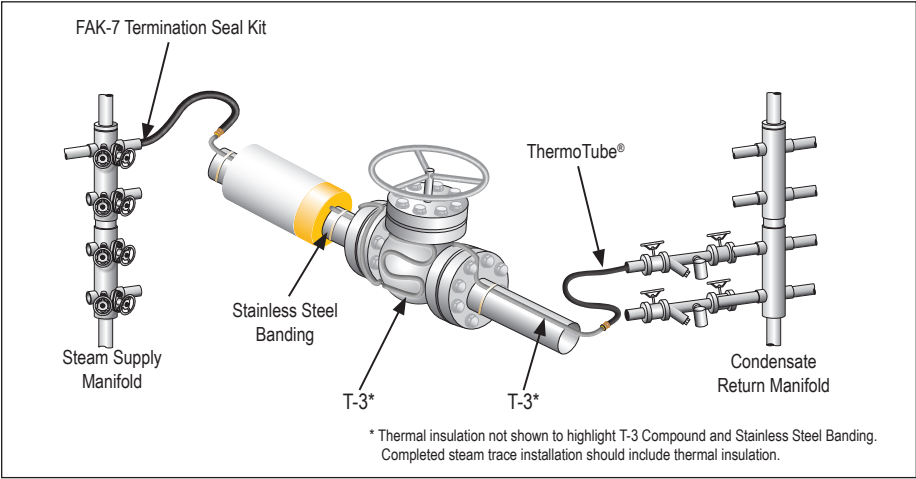


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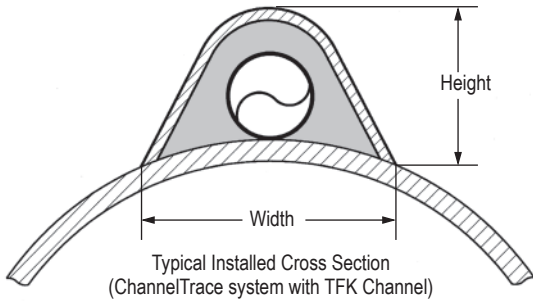
TYPICAL STEAM TRACING SYSTEM



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" 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.