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/m² · °C (20-40 Btu/hr · °F · ft²)
Nominal electrical resistivity ..... 0.86 ohms-cm (0.34 ohms-inch)
Shelf life (unopened) ..... 18 months
Bond Strength (ASTM D1002) ..... > 1380 kPa (> 200 lbs/in²)
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.

Thermal Controls and Electronics

TC-E B.V.
Nieuwland Parc 314c
2952 DD Alblasserdam
The Netherlands

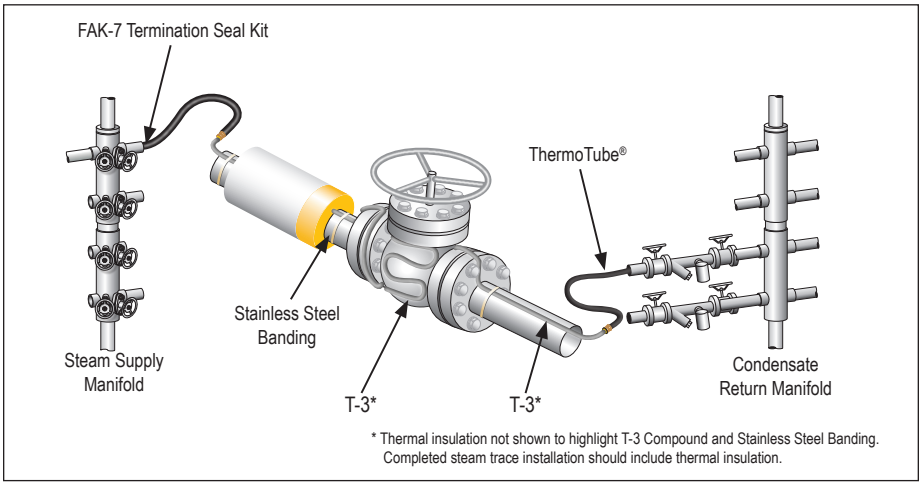
+31 (0) 183 20 10 88
sales@tc-e.nl
www.tc-e.nl - www.heattrace.eu
Authorized Thermon distributor

PRODUCT DATASHEET

T-3

HEAT TRANSFER COMPOUND

TYPICAL STEAM TRACING SYSTEM



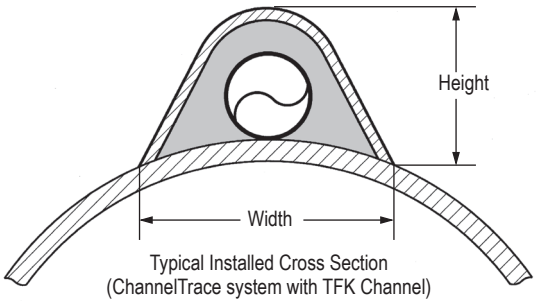
* Thermal insulation not shown to highlight T-3 Compound and Stainless Steel Banding. Completed steam trace installation should include thermal insulation.

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.



Typical Installed Cross Section
(ChannelTrace system with TFK Channel)

BASIC ACCESSORIES

Stainless Steel Banding used to secure tracer to piping.

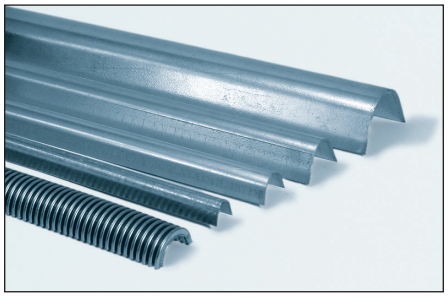
T2SSB (.50" x .020") for 3/8" and 1/2" O.D. tube tracers.

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.

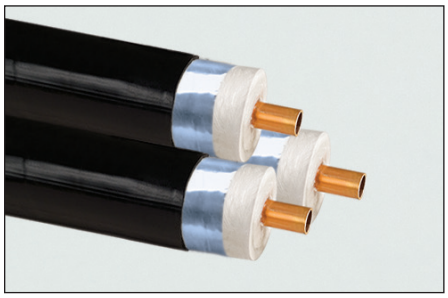
TFK-6 flexible stainless steel for 3/8" - 3/4" tubing.

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.