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. 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 requires no special curing procedure for the T-3 heat transfer compound under the TFK channel. Refer to the back of this specification sheet for details.

Specifications/Ratings . . .

Container sizes
- T-3-1 ........................................................... 3.79-liter pail
- T-3-2 ........................................................... 7.58-liter pail
- T-3-5 ........................................................... 18.93-liter can

Maximum exposure temperature: ......................... 371°C
Minimum exposure temperature: .......................... -196°C
Minimum installation temperature: ........................ 0°C

Heat transfer coefficient, \( U_t \), tracer to pipe wall
- 114-227 w/m\(^2\)°C

Nominal electrical resistivity ................................ 0.86 ohms-cm

Shelf life (unopened) ........................................ 1 year

Nominal bond shear ........................................... 1,034 kPa

Water-soluble .................................................... yes

Benefits . . .
- Free design assistance for “Thermonized” tracing
- Increase heat transfer rates significantly over bare tracing, reducing number of tracers and steam traps
- Reduce installation time and 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.

NEW
Re-Sealable
2 Gallon Pail

THERMON . . . The Heat Tracing Specialists®
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T-3
Heat Transfer Compounds

Typical Steam Tracing System...

Steam Header
Strainer
Steam Supply Manifold
Tracer Tube
FAK-7
ThermoTube
Condensate Header
Trap Station
Condensate Return Manifold

To Nearest Condensate Return Point

Steam Tracing Materials Scope

Basic Accessories...

Stainless Steel Banding... used to secure tracer to piping,
- T2SSB (12 mm wide, 0.5 mm thick) for 10 mm and 12 mm O.D. tube tracers.
- T3SSB (12 mm wide, 0.8 mm thick) for 20 mm or 25 mm O.D. tube and DN 20 or 25 (3/4 or 1 inch 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.

Catalog Number | Nominal TFK Channel Dimensions | Channel Material
---|---|---
TFK-4 | 30 mm Width | 21 mm Height | 1.2 m Length | 1.0 mm Thickness | Rigid Galvanized Steel
TFK-6 | 51 mm Width | 25 mm Height | 1.2 m Length | 0.7 mm Thickness | Flexible Stainless Steel
TFK-7 | 41 mm Width | 31 mm Height | 1.2 m Length | 1.0 mm Thickness | Rigid Galvanized Steel
TFK-8 | 17 mm Width | 19 mm Height | 1.2 m Length | 1.0 mm Thickness | Rigid Galvanized Steel
TFK-9 | 64 mm Width | 44 mm Height | 1.2 m Length | 1.6 mm Thickness | Rigid Galvanized Steel

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

TFK Channels for ChannelTrace Systems
- TFK-4... for 10 mm and 12 mm O.D. tubing.
- TFK-6... flexible stainless steel for 10 mm - 20 mm tubing.
- TFK-7... for 20 mm O.D. tube and DN 15 (1/2 inch NPS) pipe tracers.
- TFK-8... for 10 mm tubing on small lines.
- TFK-9... for 25 mm O.D. tube and DN 20 or 25 (3/4 or 1 inch NPS) pipe tracers.
(Galvanized steel is standard - contact Thermon for optional stainless steel)

ThermoTube... pre-insulated tubing used for steam supply and condensate return lines. Available in various materials and ratings.