

T-99 High Temperature Heat Transfer Compound

Product Specifications

Application . . .

T-99 is a specialty heat transfer compound formulated to provide exceptional thermal stability and superior bonding strength up to 1000°C. Unlike other grades of heat transfer compounds, it is also electrically non-conductive. It is supplied in a ready to use paste like form and may be applied by hand troweling to fill TFK channels.

T-99 resists thermal and mechanical shock and provides an efficient heat transfer rate with a high bonding capability. In order to promote good surface wetting and intimate bonding, the surfaces of traced valves, pumps and other equipment must be prepared just as though a paint or primer is to be applied. Oil, grease, dirt, rust scale, mill scale, etc., must be removed. The use of solvents and emulsions along with scraping, chipping and wire brushing are common pretreatment techniques for steel surfaces.

Specifications/Ratings . . .

Container sizes	3.8 & 7.6-liter pails
Maximum exposure temperature.....	1000°C
Minimum exposure temperature	-196°C
Minimum installation temperature	0°C
Heat transfer coefficient, U_p , tracer to pipe wall	
	85 - 170 w/m ² •°C
Shelf life (unopened)	1 year
Nominal bond shear	31 kg/cm ²
Water-soluble.....	yes

Benefits . . .

- Thermally stable at continuous temperature exposures up to 1000°C
- Electrically non-conductive
- Exceptional bond strength to resist thermal expansion and contraction
- High shock resistance when exposed to extensive thermal cycling
- Fine grain size and smooth texture for ease in workability
- Water soluble for easy clean-up

NEW
BondTrace™
FORMULATION*



Description . . .

T-99 heat transfer compounds are supplied in rugged resealable pails and have a standard shelf life of 1 year prior to opening. Compounds will harden when exposed to air or heat.

Options . . .

T-99 heat transfer compounds can be installed with TFK channels for tubular tracing installations as depicted on the back of this data sheet.

Note:

* New BondTrace formulations by Thermon increase long-term temperature stability as well as bond strength.



THERMON . . . The Heat Tracing Specialists®
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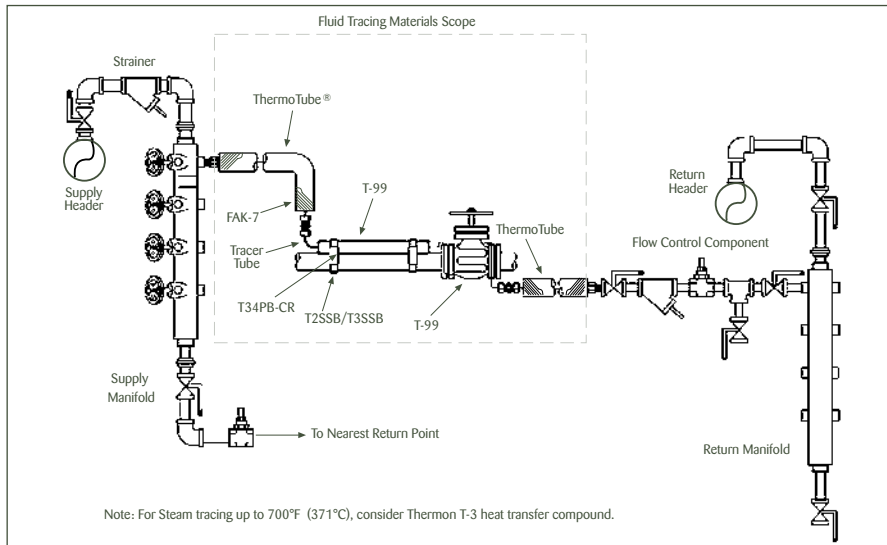
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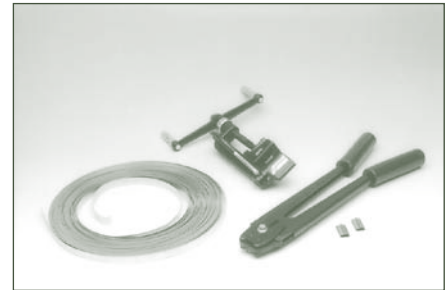
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Typical Fluid Tracing System . . .



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.

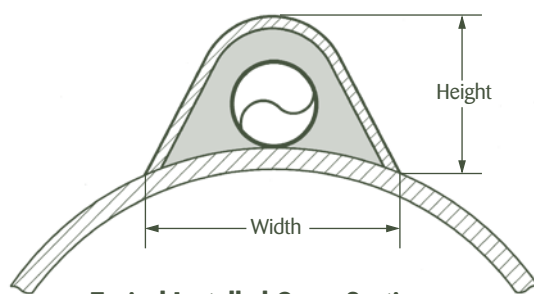
C001 . . . banding tool for applying tension to T2SSB or T3SSB banding.

1950A . . . crimping tool for T34PB-CR seals.

TFK Channel Specifications . . .

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

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



Typical Installed Cross Section
(ChannelTrace system with TFK Channel)



TFK Channels for ChannelTrace Systems

TFK-4 . . . for 10 mm and 12 mm O.D. tubing.

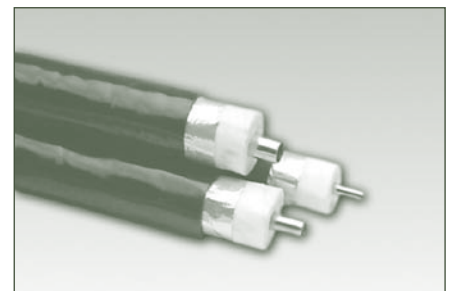
TFK-6 . . . flexible stainless steel for 10 mm - 20 mm tubing.

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 . . . preinsulated tubing typically used for fluid supply and return. High temperature ThermoTube HTX can be utilized to transport heating media up to 593°C.

