



PRODUCT SPECIFICATIONS

T-99 HIGH TEMPERATURE HEAT TRANSFER COMPOUND

APPLICATION

T-99 is a specialty high temperature heat transfer compound formulated to provide exceptional thermal stability and superior bonding strength up to 1832°F (1000°C). Unlike other grades of heat transfer compounds, it is also electrically non-conductive. It is supplied ready to use 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 bond strength. In order to promote good surface wetting and ensure contact, 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, etc., must be removed. The use of solvents and emulsions along with scraping, chipping and wire brushing are common pre-treatment techniques for steel surfaces.

SPECIFICATIONS/RATINGS

| | |
|--|--|
| Container sizes..... | 1 & 2 gallon (3.8 & 7.6-liter) pails |
| Maximum exposure temperature..... | 1832°F (1000°C) |
| Minimum exposure temperature..... | -320°F (-196°C) |
| Minimum installation temperature | 32°F (0°C) |
| Shelf life (unopened) | 1 year |
| Nominal bond shear | 425 lbs/in ² (31 kg/cm ²) |
| Water-soluble | yes |

BENEFITS

- Thermally stable at continuous temperature exposures up to 1832°F (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



DESCRIPTION

T-99 heat transfer compounds are supplied in rugged resealable pails and have a standard shelf life of 1 year. Compounds require no special cure when exposed to air or heat.

OPTIONS

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

THERMON The Heat Tracing Specialists®



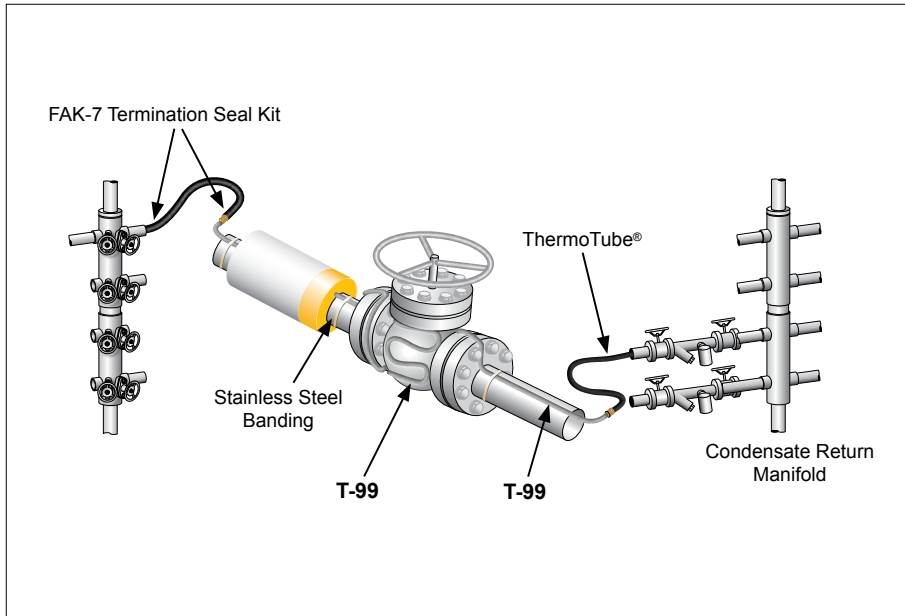
Corporate Headquarters: 100 Thermon Dr • PO Box 609 San Marcos, • TX 78667-0609 • Phone: 512-396-5801 • 1-800-820-4328
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TYPICAL STEAM TRACING SYSTEM



BASIC ACCESSORIES ...



Stainless Steel Banding used to secure tracer to piping.

ALP-1 dielectric coating applied to aluminum pipe prior to T-99 compound application.

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 lines.

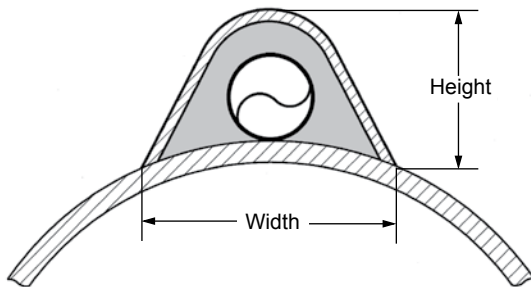
TFK-9 for 1" O.D. tube or 1" NPS pipe tracers.

(Galvanized steel is standard - use optional stainless steel above 410°F (210°C).)



ThermoTube HT & HTX high temperature pre-insulated tubing used for steam supply and condensate return lines. Available in various materials and ratings.

| Catalog Number, | Nominal TFK Channel Dimensions | | | | Channel Material |
|-----------------|--------------------------------|----------------|---------------|-------------------|---------------------------|
| | Width in (mm) | Height in (mm) | Length ft (m) | Thickness in (mm) | |
| TFK-4SS | 1.18 (30) | .84 (21) | .04 (1.2) | .04 (1.0) | Rigid 304 Stainless Steel |
| TFK-6 | 2.00 (51) | 1.00 (25) | .04 (1.2) | .03 (0.7) | Flexible Stainless Steel |
| TFK-7SS | 1.62 (41) | 1.22 (25) | .04 (1.2) | .04 (1.0) | Rigid 304 Stainless Steel |
| TFK-8SS | 0.66 (17) | .75 (19) | .04 (1.2) | .04 (1.0) | Rigid 304 Stainless Steel |
| TFK-9SS | 2.50 (64) | 1.75 (44) | .04 (1.2) | .06 (1.6) | Rigid 304 Stainless Steel |



Typical Installed Cross Section (TFK channel and heat transfer compound shown covering tubular heater or tracer)

1. Galvanized TFK channels are only used up to 410°F (210°C). Stainless steel channels are required for higher temperatures.