



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 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.....	3.8 & 7.6-liter pails
Maximum exposure temperature.....	1000°C
Minimum exposure temperature.....	-196°C
Minimum installation temperature.....	0°C
Shelf life (unopened).....	1 year
Nominal bond shear.....	31 kg/cm <sup>2</sup>
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



### 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®



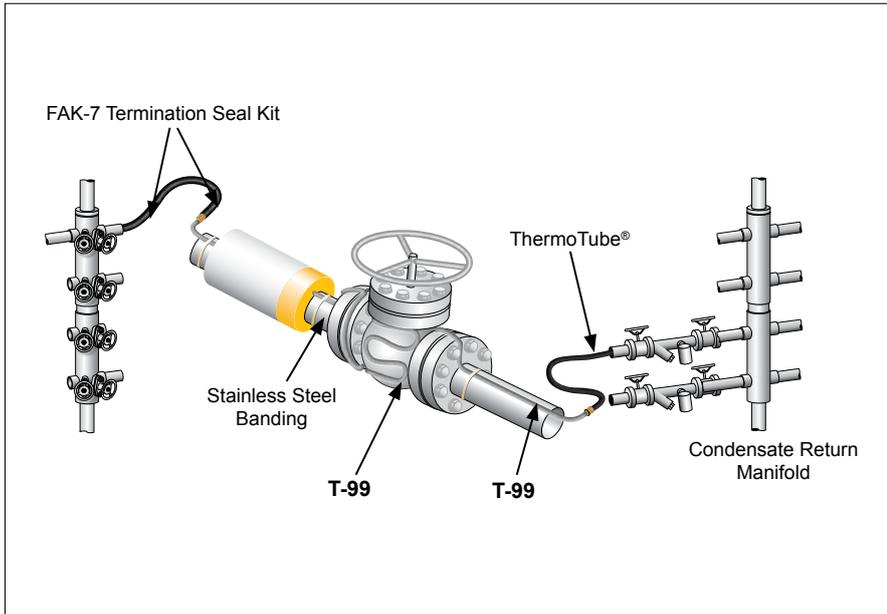
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## TYPICAL STEAM TRACING SYSTEM



## 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.

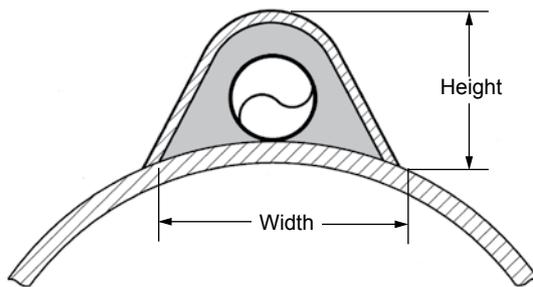
**TFK-9** for 1" O.D. tube or 1" NPS pipe tracers.

(Galvanized steel is standard - use optional stainless steel above 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 mm	Height mm	Length m	Thickness mm	
TFK-4SS	30	21	1.2	1.0	Rigid 304 Stainless Steel
TFK-6	51	25	1.2	0.7	Flexible Stainless Steel
TFK-7SS	41	25	1.2	1.0	Rigid 304 Stainless Steel
TFK-8SS	17	19	1.2	1.0	Rigid 304 Stainless Steel
TFK-9SS	64	44	1.2	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 210°C. Stainless steel channels are required for higher temperatures.