PRODUCT SPECIFICATIONS
T-85 HEAT TRANSFER COMPOUNDS

APPLICATION
T-85 is a low to medium temperature heat transfer compounds for use in moist and corrosive environments. Thermon’s heat transfer compounds provide an efficient thermal bond between the tracer and the process equipment. By eliminating the air voids that would ordinarily exist, heat is directed into the surface being heated through conduction rather than convection and radiation. A single tracer utilizing Thermon’s heat transfer compound has the equivalent performance of three to five convection (bare) tracers.

T-85 is typically utilized around valves and equipment where maximum exposure temperatures will not exceed 190°C. To reduce installation time and waste, these compounds are available in 0.379-liter cartridges.

SPECIFICATIONS/RATINGS
Container sizes
- T-85-C ........................................ 0.379-liter cartridges
- T-85-1 ............................................ 3.79-liter cans
- T-85-5 ............................................ 8.93-liter cans

Maximum exposure temperature
- T-85 ............................................. 190°C

Minimum exposure temperature
- T-85 ............................................ -196°C

Minimum installation temperature
- T-85 ambient temperature ...................... 0°C
- T-85 product temperature ...................... 21°C

Heat transfer coefficient, U ................................ tracer to pipe wall
114-227 w/m²•°C

Electrical resistivity ................................ 57 ohms/cm

Shelf life
- 0.379-litre cartridges ......................... 90 days
- 3.79- and 18.93-litre cans ..................... 30 days

Bond shear ....................................... 6,895-12,411 kPa

Water-soluble ..................................... no

DESCRIPTION
T-85 are available in 0.379-liter cartridges as well as 3.79-litre and 18.93-liter cans.

OPTIONS
T-85 cartridge applicators allow easy installation for the 0.379-litre heat transfer compound.

BENEFITS
- Non-soluble in water - no special curing required
- Epoxy resin base creates strong mechanical bond
- Suitable for moist or corrosive environments
- 1/10-gallon cartridges allow easy application for valve and accessory heat tracing
- Free design assistance

Typical Installed Cross Section
(Fillet application)
**PRODUCT SPECIFICATIONS**

**T-85** HEAT TRANSFER COMPOUNDS

**TYPICAL STEAM TRACING SYSTEM**

![Diagram of steam tracing system]

**FAK-7 End Seal Kit**

**FT-1H Fixing Tape**

**ThermoTube®**

**Condensate Return Manifold**

**PRODUCT CONFIGURATIONS**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Description</th>
<th>Max. Exposure Temperature</th>
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<tbody>
<tr>
<td>T-85-C</td>
<td>0.379-litre Cartridge</td>
<td>190°C</td>
</tr>
<tr>
<td>T-85-1</td>
<td>3.79-litre Can Compound</td>
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<td>T-85-5</td>
<td>18.93-litre Can Compound</td>
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</tr>
</tbody>
</table>

**BASIC ACCESSORIES**

- **MC-1** manual applicator.
- **AC-1** air-powered cartridge applicator with 50' of air hose.
- **846-1E** battery powered cartridge applicator for T-85 and T-80 Heat Transfer Compounds. Battery pack and 120 Vac charger included.
- **Stainless Steel Banding**... used to secure tracer to piping.
  - **T2SSB** (12 mm wide, .5 mm thick) stainless banding for 10 mm and 12 mm O.D. tube tracers
  - **T3SSB** (12 mm wide, .8 mm thick) stainless banding for 20 mm or 25 mm O.D. tube and DN 20 or 25 (3/4 or 1 inch NPS) pipe tracers
- **C001** banding tool for applying tension to T2SSB or T3SSB banding.
- **T34PB-CR** crimp seals for fastening tensioned banding.
- **1950A** crimping tool for T34PB-CR seals.

*Thermal insulation not shown to highlight T-3 Compound and FT-1H Tape. Completed steam trace installation should include thermal insulation.*