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.

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 454°C (850°F). 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 invites no special curing procedure for the T-3 heat transfer compound. (Refer to the back of this specification sheet for details.)

SPECIFICATIONS/RATINGS

<table>
<thead>
<tr>
<th>T-3-1</th>
<th>3.79-liter (1-gallon) pail</th>
</tr>
</thead>
<tbody>
<tr>
<td>T-3-2</td>
<td>7.58-liter (2-gallon) pail</td>
</tr>
<tr>
<td>T-3-5</td>
<td>18.93-liter (5-gallon) pail</td>
</tr>
</tbody>
</table>

Maximum exposure temperature (ASTM E2550) .................................................. 454°C (850°F)
Minimum exposure temperature .................................................. -196°C (-320°F)
Minimum installation temperature .................................................. 0°C (32°F)
Heat transfer coefficient, Ut, tracer to pipe wall .................................................. 114-227 W/m² • °C (20-40 Btu/hr • °F • ft²)
Nominal electrical resistivity .................................................. 0.86 ohms-cm (0.34 ohms-inch)
Shelf life (unopened) .................................................. 1 year
Bond Strength (ASTM D1002) .................................................. > 1380 kPa (> 200 lbs/in²)
Water Soluble Chlorides (ASTM C1218) .................................................. < 100 ppm
Water-soluble .................................................. yes

BENEFITS
• Increase heat transfer rates significantly over bare tracing (VAFE), reducing number of tracers and steam traps
• Fewer steam tracers reduce installation time; ChannelTrace eliminates waste
• Water-soluble for easy cleanup
• Requires no special curing procedure for tracing under TFK channels
**TYPICAL STEAM TRACING SYSTEM**

**TFK CHANNEL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Length (m)</th>
<th>Thickness (mm)</th>
<th>Channel Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>TFK-4</td>
<td>30 (1.18)</td>
<td>21 (.84)</td>
<td>1.2 (.04)</td>
<td>1.0 (.04)</td>
<td>Rigid Galvanized Steel</td>
</tr>
<tr>
<td>TFK-6</td>
<td>51 (2.00)</td>
<td>25 (1.00)</td>
<td>1.2 (.04)</td>
<td>0.7 (.03)</td>
<td>Flexible Stainless Steel</td>
</tr>
<tr>
<td>TFK-7</td>
<td>41 (1.62)</td>
<td>25 (1.22)</td>
<td>1.2 (.04)</td>
<td>1.0 (.04)</td>
<td>Rigid Galvanized Steel</td>
</tr>
<tr>
<td>TFK-8</td>
<td>17 (0.66)</td>
<td>19 (.75)</td>
<td>1.2 (.04)</td>
<td>1.0 (.04)</td>
<td>Rigid Galvanized Steel</td>
</tr>
<tr>
<td>TFK-9</td>
<td>64 (2.50)</td>
<td>44 (1.75)</td>
<td>1.2 (.04)</td>
<td>1.6 (.06)</td>
<td>Rigid Galvanized Steel</td>
</tr>
</tbody>
</table>

**Note:** Galvanized TFK channels are used up to 210°C (410°F). Use optional stainless steel channels for higher temperatures.

**BASIC ACCESSORIES**

- **Stainless Steel Banding** used to secure tracer to piping.
- **ALP-1** dielectric coating applied to aluminum pipe prior to T-3 compound application.
- **T2SSB (0.50” x 0.020”)** for 3/8” and 1/2” O.D. tube tracers.
- **T3SSB (0.50” x 0.030”)** 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.

**ThermoTube** pre-insulated tubing used for steam supply and condensate return lines. Available in various materials and ratings. See Form TSP0009 for more info.