

T-TUBES®

a UFP Technologies brand

ADVANCED INSULATION FOR CLEAN ENVIRONMENTS



Working with T-Tubes®

T-Tubes Clean Environment Insulation are composed of molded straights, tees and elbows, each created as a one-piece “clamshell” design. They are made from ZOTEK F Kynar PVDF foams, which are fully closed-cell and create very low particulates. Hence, T-Tubes do not require additional jacketing, and can be cut and installed in a live cleanroom without the use of tents or bags.

Standard straights come with an overlapping pressure sensitive tape already applied.

Tools

Only basic tools are required to install T-Tubes.

Straight edge cutter

Pen

Please inquire about circular cutters for valve, flange and hanger covers.

Cutting T-Tubes

Straight edge knives work best to cut T-Tubes down to size. To eliminate any gaps, cut pieces slightly oversized in length, e.g. 30 1/8” section for a 30” gap.

T-Tubes do not particulate and can be cut inside live clean environments without additional containment measures (tents, bags, hoods, etc.)

Application for Personnel Protection and Heat Conservation

The simplest and fastest way to install T-Tubes for heat conservation and personnel protection is by using the durable tape they come with. Tape is of the same resin as the foam, Kynar PVDF, and possesses similar chemical and temperature tolerances.

Straights already have tape applied on one side.

- Peel off liner
- Pull both ends of foam together to cover stainless tube completely
- Run hands over tape and apply pressure to smooth it over foam
- For straight runs longer than 12”, cut a vertical slit on tape at 6” intervals. Applying tape this way, at small stretches at a time, helps avoid self-sticking.

Closing the elbows and tees require the use of 1” wide tape supplied in rolls. Peel, place on fittings and apply pressure.

Butts are to be joined with the same tape.

Application for Condensation Prevention and Cold Conservation

Airtight sealing of seams and butts is essential for condensation prevention on cold lines. Our Kynar-compatible adhesive/sealant bonds to T-Tubes and fills gaps, creating a sound seal. It is flexible and will not crack when stressed.

- Lay a bead of sealant on seams and butts
- Install as indicated above using tape over sealant
- There is no need to remove tape once sealant cures

As an option, where tape is not desired, a low tack removable tape or cable ties can be used until sealant fully cures.