



Manufacturer of High-Performance Fluoropolymer Films,
Laminates, and Composites

CROSS-SEAL™ INSULATION JACKETING

A DIFFERENT ENGINEERING APPROACH

An emerging alternative replaces sewn fiberglass-based systems with fully heat-sealed all-PTFE insulation architectures. TCI's Cross-Seal™ insulation system combines heat-sealed CrossFilm™ PTFE jacketing with fully encapsulated Therma-Pure™ PTFE insulation technology.

Unlike sewn insulation systems, heat-sealed PTFE jackets eliminate needle perforations entirely. The result is a continuous PTFE barrier designed to minimize:

- Fluid ingress
- Particle-release pathways
- Wicking-related contamination migration
- Exposure of internal insulation materials



Cross-Seal™ Benefits:

Maximum Moisture Protection: The heat-sealed seams keep the insulation material dry and minimize the possibility for corrosion under insulation (CUI).

Advanced Manufacturing Speed: The sealing process simulates the speed of a sewing machine and is fully capable of creating complex shapes with intricate curvature.

Ultra-Pure Compatibility: Perfectly compatible with any harsh or sterile environment, including ultra-pure settings such as food processing plants, pharmaceutical plants, and semiconductor clean rooms.

Can be used to encapsulate Therma-Pure™ for a 100% fiberglass free insulation system.

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