



# Food & Beverage

Industry Applications

*Fiber Free*

*Cost Effective*

*Mold Resistant*

*Energy Efficient*

*Materials That Resist Fungal Growth*



**TechLite® Insulation** has been supplying factory jacketed insulation systems to the food processing industry for achieving quality process improvements on their piping systems for over 40 years. Temperature, personnel protection, mold resistance, and condensation control are just a few of the applications for our TechLite products. Our business is producing and supplying efficient, sustainable, mold resistant insulation systems to food and beverage manufacturers for pipe, tanks, vessels and duct insulation applications. In addition to reducing energy consumption, TechLite contains very low levels of chlorides, bromides, and fluorides which conforms to ASTM C 871 for use over austenitic stainless steel. High levels of these corrosive elements are some of the principal contaminants found with other insulation systems.

TechLite is an excellent choice as an efficient insulation product in your processing area.

## PREVENTION OF MOLD GROWTH

Next to open seams, processing abuse, and improper installation, moisture ingress is the single most destructive factor to insulation in a food processing environment. Wet insulation promotes mold growth on the insulation surface which is an indicator that the integrity of your existing insulation system has failed. TechLite passes ASTM G 21 (Resistance of Polymeric Materials to Mold and Fungi). TechLite products have the ability to control the build-up of condensation on your facility's below ambient temperature piping systems, helping to maintain better moisture control within your facility's processing areas.



## EASE OF INSTALLATION

TechLite can be installed in half the time required by other 2-step insulation systems. SSL (Self-Sealing Lap) is standard on all factory jacketed TechLite systems. Installation is a very simple procedure and can be accomplished at any ambient temperature between 35°F and 110°F. One end of the insulation is supplied with a 2" overlap so adjoining sections overlap and seal to the next (ASJ uses included self-adhesive butt strips). Simply place the insulation around the pipe and secure with SSL flap. Fastener Weld solvent bonding adhesive is used to achieve a tight permanent vapor barrier seal. No bands or staples are required. Detailed instructions are furnished with shipment.





## THE DIFFERENCE IS OUR FITTINGS!

For fittings such as elbows, tee's, and flanges, TechLite insulation inserts are available in preformed or wrapped diaper design. The preformed inserts are precision ground to provide a fit that is within the pipe tolerances. These inserts and diapers are also fabricated from TechLite melamine foam. White or color coded PVC fitting covers are provided with the insulation inserts. The PVC fitting covers are UV inhibited and resistant to harsh weather conditions and offer good chemical resistance.

## BENEFITS OF TECHLITE

- TechLite® is a Patented Insulation System, US Patent #6403182
- Mold & Fungus Resistant (ASTM G 21)
- Easily Installed Product with Clamshell Design for Pipe & Fittings
- Non-Fibrous Materials means No Fine Respirable Particles
- Non-Corrosive to All Piping Systems
- Far exceeds ASTM E84 Smoke & Flame Rating (Class A)
- Resilient to Abuse, Not Subject to Breakage or Deterioration
- Superior Acoustical Properties
- Superior Thermal Conductivity

**(K-factor @ 75°F = 0.25 BTU·in/h·ft²·°F)**



## TECHLITE DIFFERENCE

Our distributors and sales engineers are qualified to help with any insulation need, whether it be for a routine application or a special project. Our products are used in all types of environments.

## FOOD & BEVERAGE INDUSTRY

Storage Systems & Tanks  
 Steam Distribution Systems  
 Critical Temperature Rooms  
 Above Ambient Hot Services  
 Batching & Blending Systems  
 Wash Down & Sanitary Systems  
 Sanitary Stainless Tubing Systems  
 Below Ambient Temperature Systems  
 Personnel Protection in Process Areas



## INSULATION SPECIFICATIONS

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- |                                  |                                      |
|----------------------------------|--------------------------------------|
| • Insulation material            | Open Cell Melamine Foam              |
| • Service temperature            | -40°F* to 350°F (min/max pipe temp.) |
| • Thermal conductivity, k        | 0.25 btu•in/hr•ft <sup>2</sup> •°F   |
| • Density                        | 0.56 ± 0.06 lb/ft <sup>3</sup>       |
| • Flame spread/smoke development | 25/50 per ASTM E84                   |
| • Color                          | Light Gray                           |
| • Standard Thickness             | 1", 1½", 2", 2½", 3"                 |

*\*Capable of withstanding -328°F continuously – consult factory with questions regarding extreme temperature applications.*

## 800 SERIES JACKET SPECIFICATIONS

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- |                                  |   |
|----------------------------------|---|
| • Jacket material                | PVC, High Gloss, Semi-Rigid             |
| • Service temperature            | 0°F to 140°F                            |
| • Flame spread/smoke development | 25/50 per ASTM E84 (Class A)            |
| • Color                          | Standard White (Other Colors Available) |
| • Standard Thickness             | 0.020"                                  |



## CONTACT

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