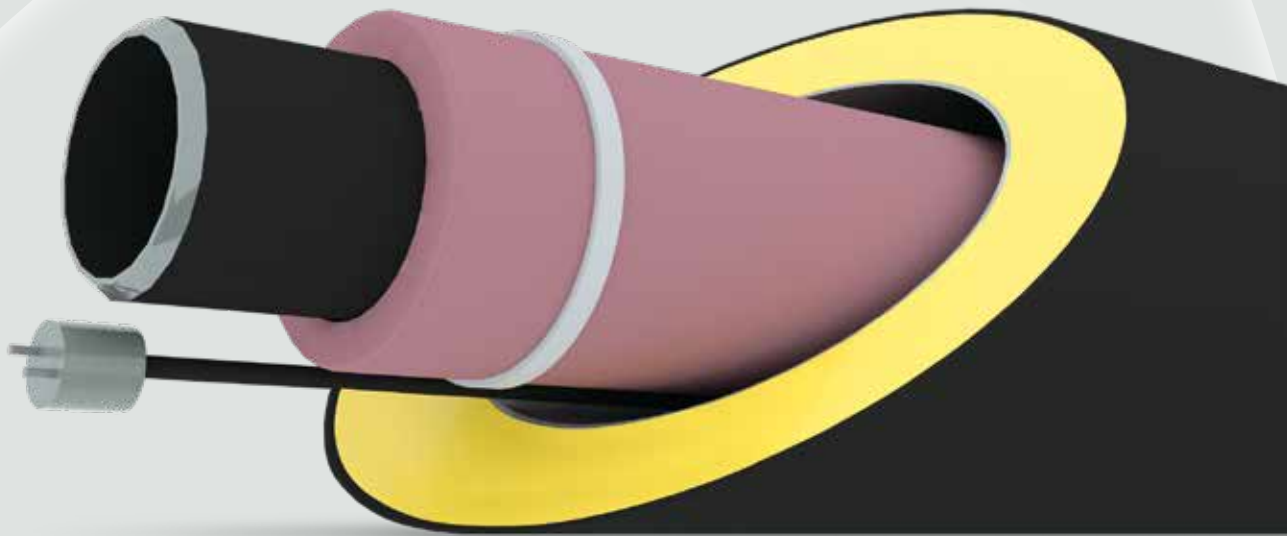


# **MULTI-THERM®**

PRE-INSULATED PIPE SYSTEM



PARTNERS IN EXCELLENCE



- Aerogel insulation is the most advanced and thermally efficient extreme temperature system resulting in reduced insulation thickness, more compact piping, and saving overall costs
- Polyurethane foam is void-free, fully bonded, provide optimum performance and longer service life
- Available in either an HDPE or FRP waterproof outer jacket to prevent moisture ingress and corrosion
- Optional aluminum diffusion barrier to prevent cell gas from dissipating out of the insulation layer and decreasing thermal efficiency
- Optional PermAlert® cable leak detection system available to provide early warning of potential problems

## MULTI-THERM® PROTECTION

An efficient piping system depends on its ability to transport liquids, gases, or chemicals through the pipes to various buildings or plant equipment. Understanding extreme temperature requirements are critical to designing, installing, and operating the piping system with peak performance.

If the piping system is designed with low-quality insulation in mind, problems can occur. Selecting the right design and materials is essential to the project's long-term efficiency and success.

These reasons and having a professionally designed pre-insulated piping system are why you should specify MULTI-THERM®.

## MULTI-THERM® PERFORMANCE

MULTI-THERM is a pre-insulated pipe system with aerogel nanotechnology insulation, the lowest density solid, and the most effective thermal insulation material. MULTI-THERM is an advanced and thermally efficient steam and hot water transportation pipe system for very extreme temperatures or secondary containment applications.

Comprising of a steel carrier pipe, aerogel insulation, a steel conduit pipe, polyurethane foam insulation, and a waterproof outer jacket, MULTI-THERM is the best extreme temperature pipe system solution in the market.

## MULTI-THERM® FEATURES

For long-term quality and performance in extreme temperature or where secondary containment is required, MULTI-THERM is your solution:

- Operating temperature up to 750 °F (399 °C)
- An energy-efficient piping system that is corrosion-resistant and durable available for high-temperature applications

## MULTI-THERM® SOLUTIONS

MULTI-THERM is the most energy-efficient, corrosion-resistant, and reliable pre-insulated pipe system for ultimate protection. When appropriately designed, MULTI-THERM can have a long service life with significant cost savings and superior environmental performance.

PERMA-PIPE offers turnkey services to meet operational and project challenges beyond the piping system that our clients have come to trust. We provide project planning, engineering support for system construction, design assistance and calculations, project management, pre-fabrication services, and field service training certification to reduce your installation, environmental, and safety concerns from start to finish of a piping project. Our extensive track record of successful global projects will showcase our experience.





## MULTI-THERM<sup>®</sup> OPTIONS

- Steel Carrier Pipe
- Aerogel Insulation
- Steel Conduit Pipe
- Polyurethane Foam Insulation
- Fiberglass Reinforced Polymer (FRP) or High-Density Polyethylene (HDPE) Outer Jacket

### Carrier Pipe Options:

Available in many different pipe materials

### Applications:

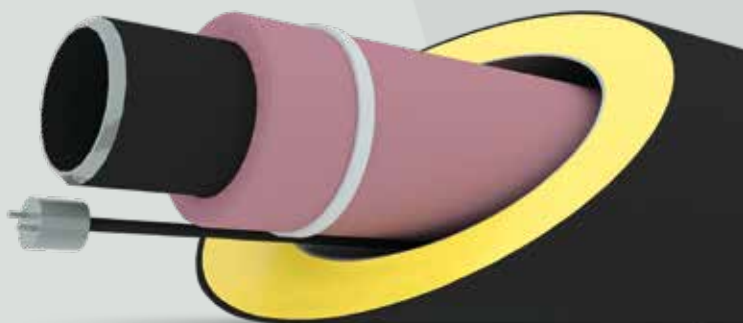
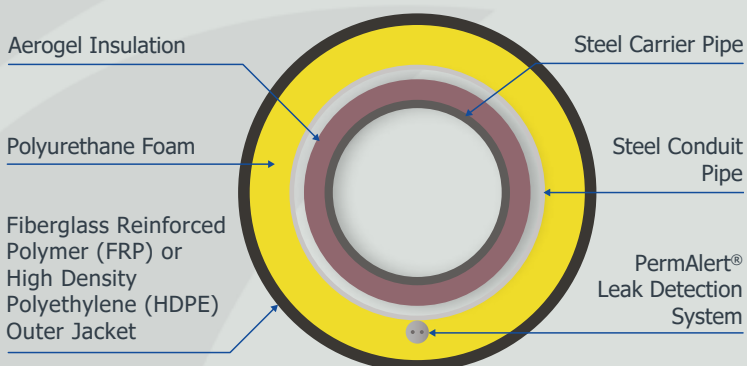
- Oil & Gas
- District Energy
- Environmental
- Industrial
- Maritime

## PARTNER WITH PERMA-PIPE

PERMA-PIPE International Holdings, Inc. (NASDAQ:PPIH) is a global engineered pipe services company offering core competencies in anti-corrosion coatings, insulation solutions, containment systems, leak detection systems, engineering support, field service, and custom fabrication.


When you do business with PERMA-PIPE, you are partnering with a company that has served the industry for over 100 years and has vast experience in all the markets we serve. You are not just buying a long-lasting, reliable piping system; you are also investing in a partnership with a company that stands behind its products and services while providing lasting peace of mind.

## TYPICAL MULTI-THERM<sup>®</sup> CROSS-SECTION







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 [permapipe.com](http://permapipe.com)

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