

DELIVERING INNOVATIVE
INSULATION PRODUCTS
DERIVED FROM
NANOTECHNOLOGY

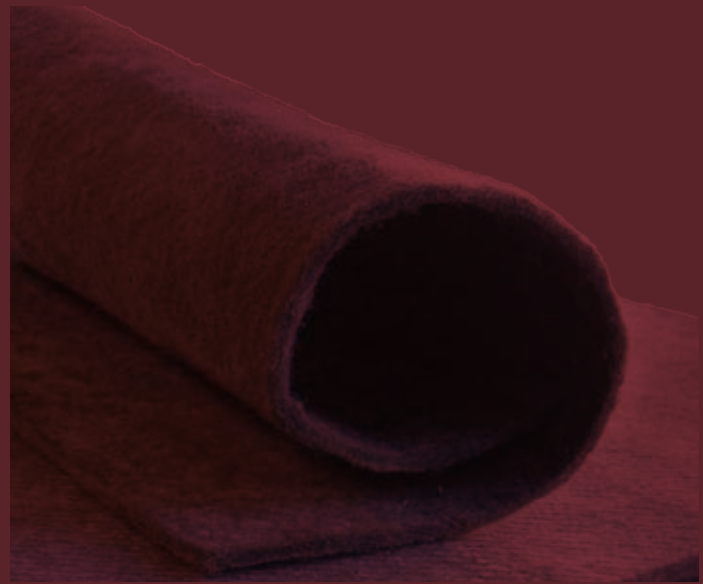


aspen | **aerogels**™
NANOTECHNOLOGY AT WORK™



www.aerogel.com

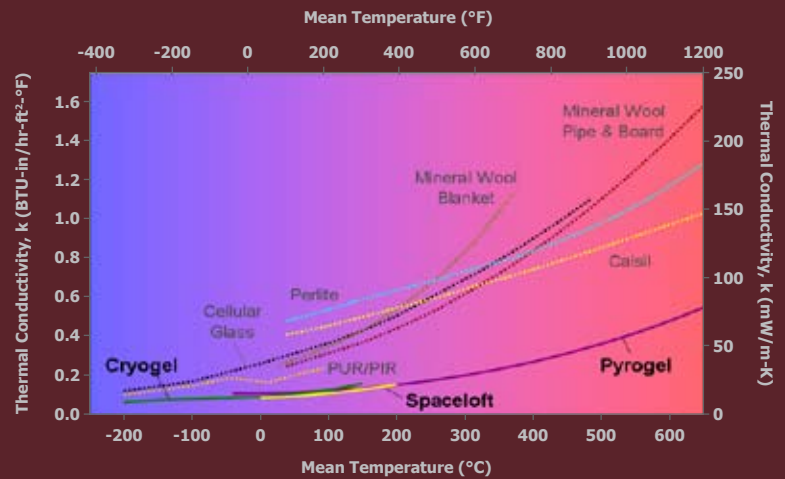
Ultimate Thermal Protection



First developed in 1931, aerogel is composed of over 90 percent air, making it a highly effective insulator with the lowest thermal conductivity of any solid. Aspen Aerogels has turned aerogel into an extremely strong, durable, thin, and flexible insulation material that is two to eight times more effective than traditional insulation – the ideal choice for a wide range of applications.

Aspen Aerogels' Cryogel, Spaceloft, and Pyrogel Insulation Deliver:

- Lowest thermal conductivity (k-value) of any industrial insulation
- 2x-8x better insulation performance than traditional materials
- Lower weight and less volume for same or better insulating performance
- Significant total installed cost savings and operational savings

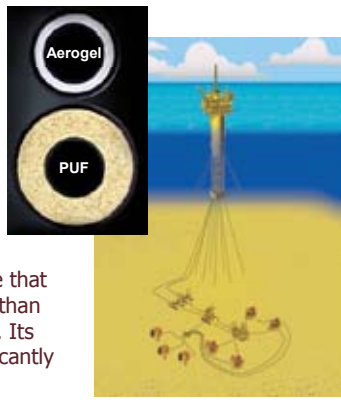


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Offshore Oil

Aspen Aerogels is saving customers millions of dollars in subsea applications around the world. Aspen Aerogels' pipe-in-pipe insulation provides thermal performance that is equal to or better than traditional insulation. Its thinner profile significantly reduces outer pipe diameters, which saves space and dramatically reduces total installed costs.



LNG Ships, Storage, and Transfer Systems

For the growing LNG market, Aspen Aerogels offers substantial opportunity for cost savings through superior insulation in tankers, container systems, and piping. The thermal performance per unit of measure results in tremendous system and operational savings.



Processing Industries

Aspen Aerogels offers superior insulation solutions for hydrocarbon, chemical, and food processing operations. From cutting energy losses to extending pipe rack efficiencies, Aspen Aerogels is helping to save money and energy in piping systems.

Building and Construction

Aspen Aerogels' building and construction solutions provide the highest R-values available with extremely slim profiles, virtually eliminating thermal bridging. Our solutions increase overall building energy efficiency by integrating insulation in places not possible before, such as with windows and roof sections where other insulation simply won't fit.



Appliances

Aspen Aerogels provides thermal insulation solutions for a variety of appliance applications. Aspen Aerogels' ultra thin, ready-to-use blankets deliver extremely low thermal conductivity, enabling appliance designers to insulate in tighter and smaller profiles such as doors and walls.

Military and Aerospace

Aspen Aerogels' flexible blankets are currently being implemented for high temperature thermal insulation, cryogenic thermal insulation, IR suppression, sound absorption, and fire suppression across a range of military and aerospace applications.



Outdoor Gear and Apparel

Aspen Aerogels' insulation offers the strength, flexibility, and high thermal performance demanded by outdoor gear and apparel. It delivers the highest insulating value (R-value) of any material with minimum weight and thickness - so less material is required. Aspen Aerogels' insulation maintains performance under load, with no loft required, making it ideal for underfoot applications. Its thin profile enables more fashion and design options, and it remains durable in normal wash dry cycles.



A World of Applications

Products

Aspen Aerogels' insulation delivers maximum thermal protection with minimal weight and thickness. Our aerogel blankets are available in three product families:

Cryogel™ **Low temperature applications**

Spaceloft™ **Medium temperature applications**

Pyrogel® **High temperature applications**

Within each product family, various thicknesses are available to meet your application needs. Products also can be coated and opacified.

To find the right product for your application, visit www.aerogel.com and click PRODUCTS to view product data sheets and informative case studies of Aspen Aerogels' insulation at work in the field.

For more detailed information and to request samples, please fill out the online request form or call 508-691-1111.

Locations

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Montreal, Quebec, Canada
San Francisco, California, US

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