

aerotherm<sup>™</sup>  
aerogel insulation

# AEROGEL INSULATION

Introducing NASA developed  
technology to the world of outdoors

2-8 times more effective than  
traditional insulation, especially in  
footwear

Already used in innovative products by leading outdoor brands



PeakPerformance



RefrigiWear

# What is AEROTHERM

**AEROTHERM** is a new cutting edge nanotechnology thermal barrier insulation. Its performance is based on unique properties of **AEROGEL** which is **AEROTHERM'S** main component.

With its nano-sized air pockets that trap air, aerogel offers higher thermal performance than any other insulation material.

As **AEROTHERM** requires no loft to maintain thermal insulation properties and even 2mm of **AEROTHERM** provide sufficient thermal protection, it is an ideal choice for application in footwear.

**AEROTHERM** insulation is manufactured in the form of flexible panels of customer-designed shape and size. Panels could be sewn into a garment or inserted into parts of footwear or other product.



← **A typical jacket front insulation panel**



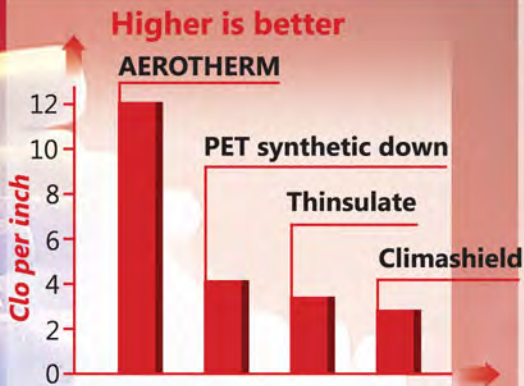
← **Glove insulation panel**



← **Insole shapes for footwear insulation**

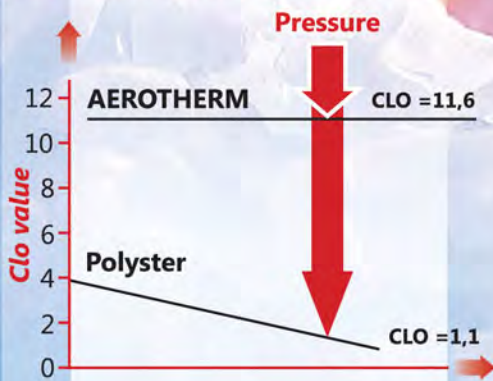
**The world's best thermal protection for outdoor gear apparel and footwear**

# How well does it work?



**AEROTHERM has the highest Clo value per unit thickness.**

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Other insulation materials require loft to maintain their insulation properties. Pressure causes these materials to compress dramatically and lose their loft along with their insulation capacity.

**AEROTHERM** does not need loft to deliver its high insulation value.

It barely compresses, even in a footbed under adult person weight. At 15 psi pressure, **AEROTHERM** insulation retains over 85% of its original thickness and over 95% of its original thermal performance.

## Features and advantages of **AEROTHERM**



- Comprises nanoporous **AEROGEL** – the world best thermal insulator with record low thermal conductivity.
- 2-8 times more effective than other thermal insulation, no loft required.
- Extremely thin and flexible – 2-3mm thickness of **AEROTHERM** can replace 5-15mm thickness of lofted insulation.
- Doesn't compress, keeps thermal resistance and performance under pressure = **IDEAL** choice for application in **FOOTWEAR** (midsole, strobol board, insole, toe cap).
- Waterproof Performance tested and proven in extreme climates and conditions (Mnt Everest, Mont Blanc).

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# AEROTHERM products for retail

Could be manufactured under a private label

## AEROTHERM insoles

Using aerospace technology in daily life AEROTHERM ensures warm feel in winter and cool feel in summer.

Great for outdoor sporting activities, camping and hunting



## CONTACT US

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