

Press
release



Heidenheim, November 2012

Outlast launches new PCM fiberfill

Active climate regulation during sleep

Outlast Technologies, market leader for temperature regulating phase change materials (PCMs), presents a new PCM fiberfill material for bedding that utilizes the recently launched world's first PCM polyester fiber.

„This is another milestone for us and we are proud of this new, high performing development, which helps regulate the sleeping climate in an optimum way,” says Martin Bentz, Managing Director of Outlast Europe GmbH, Heidenheim/Germany. „Our PCM polyester fiber can now be used as filling for duvets, pillows or sleeping bags and helps to actively balance temperature and humidity during the night.”

Important: The new PCM fiberfill manages the climate inside the bed proactively, in contrast with other technologies that only wick away humidity. Tests with the independent system THG SleepView (from C. Russ) indicated that a duvet with an Outlast® PCM fiberfill can reduce absolute humidity by 48% compared to a traditional duvet. “This is an impressive added value,” says Bentz, “which clearly demonstrates the proactive way our technology works.” But what is the Outlast® difference? According to Martin Bentz “Outlast® technology works continuously to manage heat and moisture while reducing sweat production right from the beginning, so less humidity is created inside the bed. The Outlast® difference then influences a person’s overall comfort that leads to a better night’s rest.”

The new Outlast® polyester fiberfill can be easily blended with other fibers and is suited for bedding products with synthetic fillings. The result: cuddly and soft with the added value of an ideal comfort climate. Initial market reactions have been very positive and point to Outlast® technology’s superior performance with tests conducted on pilot customers that provided excellent results. Consumers can look forward to the new development.

For customers looking for the idea temperature via down and feather products, Outlast continues to offer a multiple proven solution for the ideal temperature regulation. In this situation, coated nonwovens are used to absorb, store and release excess body heat, while still maintaining the look and feel of feather or down. The performance is comparable to the PCM fiberfill, however customers using the new Outlast® polyester fiberfill can take advantage of not having to add an extra layer of fabric into their product.

Outlast® technology

Outlast® technology was originally developed for NASA to protect astronauts from temperature fluctuations in space. Outlast® technology utilizes phase change materials (PCM) that absorb, store and release heat for optimal thermal comfort. Outlast® technology is comparable to ice in a drink; as it changes from solid to liquid, it absorbs heat and cools the drink, keeping that drink at the desired temperature for a longer period of time. Outlast® phase change materials work in the same way, but are microencapsulated to be permanently enclosed and protected in a polymer shell. We call microencapsulated phase change materials Thermocules™.

This encapsulation process makes the Thermocules™ exceptionally durable. These Thermocules™ have the capacity to absorb, store and release excess heat. This gives any product containing Outlast® technology the ability to continually regulate skin's microclimate. As the skin gets hot, the heat is absorbed, and as it cools, that heat is released.

Outlast® technology is not wicking technology, which manages moisture by reacting to your sweat and pulling it away from the skin. Outlast® technology will proactively manage heat while controlling the production of moisture before it begins. That's the Outlast® difference. The benefits of Outlast® Adaptive Comfort® products at a glance:

- Absorbs excess body heat
- Manages moisture
- Reduces overheating
- Reduces chilling
- Reduces perspiration
- Continuously adapts to thermal changes

In times where competition is getting tougher, Outlast offers a true, winning benefit to its customers and retailers. They are able to offer an added value that improves comfort in the sleeping environment as well as increase the attractiveness of their line of goods. Experience has shown that PCM products have great sell-through and can drive an increase in sales. For more information, come to Outlast in hall 8.0, stand D 74 or visit the following Outlast® licensees at Heimtextil, January 9-12, 2013 in Frankfurt/Germany:

Abeil: Hall 8.0, Stand C 60

Dyckhoff: Hall 8.0, Stand C 40

Microfibres: Hall 4.1, G 90

Quilts of Denmark: Hall 8.0, Stand G 81

Shandong Design Weave: Hall 10.3, Stand B 21D

Sleepwell Kauffmann: Hall 8.0, Stand F 69

Velamen: Hall 8.0, Stand A 50

Outlast

Outlast Technologies LLC, a privately held U.S. corporation, is the worldwide leader in phase change materials and applications. Outlast® technology is the heat management technology originally developed for NASA that enables any textile to absorb, store and release heat. Outlast® technology pro-actively responds to changes in skin temperature to manage heat and reduce moisture for everyday comfort.

For over 20 years, Outlast has been committed to the development of new fibers, fabrics and coatings incorporating phase change materials, expanding the use of Outlast® technology across more than 200 brands and a multitude of products in apparel, footwear, bedding, packaging and labels, and accessories. For more information, please visit www.outlast.com.

Outlast®, Adaptive Comfort®, Thermocules™ and ...not too hot ...not too cold ...just right™ are trademarks of Outlast Technologies, LLC.

374 words

Pictures: Fiberfill, Martin Bentz, artwork, test curve C. Russ

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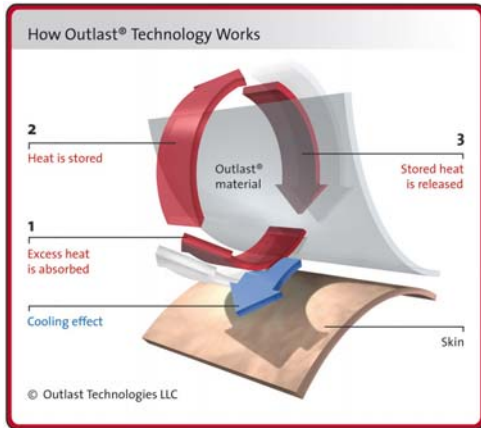
Picture 1

New to market leader Outlast's portfolio: The world's first climate regulating PCM polyester fiberfill for bedding



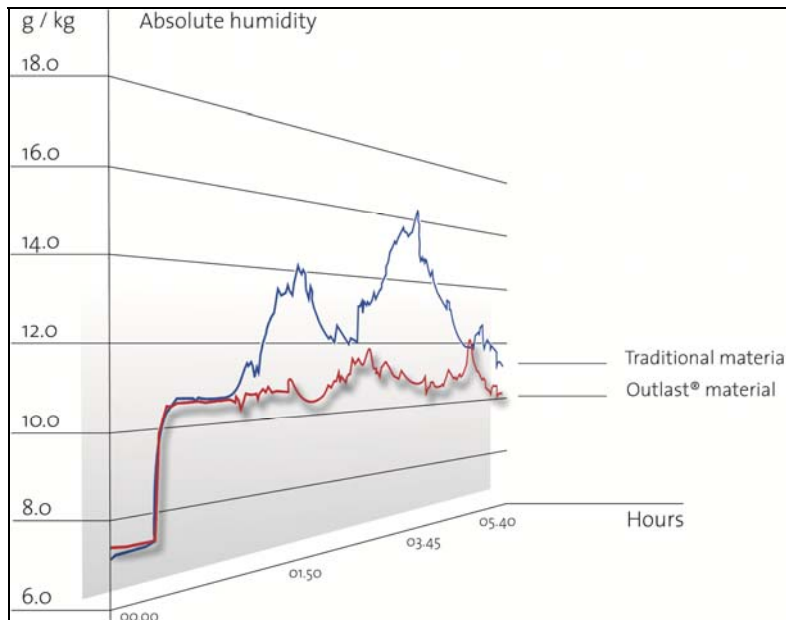
Picture 2

„We are proud of our new PCM fiberfill ideally regulating the sleeping climate and providing an extremely good performance,“ so Martin Bentz, Managing Director of Outlast Europe.



Picture 3

Outlast® materials work dynamically and proactively. The sleeping climate is well balanced and comfort is improved.



Picture 4

Tests with the independent system THG SleepView (from C. Russ) indicated that a duvet with an Outlast® PCM fiberfill can reduce absolute humidity by 48% compared to a traditional duvet.

Pictures: Outlast Technologies LLC

**>>> more
information ...**

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