The comfortzone between warm and cool

Cell Solution Clima technology creates a “micro heat accumulator” with an extraordinary potential.

Patented thermoregulating fibers
The Cell Solution Climafiber absorbs the excessive heat from the body and returns it when needed.

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**Cell Solution Climafiber** is a PCM (Phase Change Material) - micro composite with thermo-regulating features. It is developed and patented by TITK Institute in Thuringia, Germany.

**Cell Solution Climafiber** is an essential technological and functional improvement in comparison to the classic phase change materials.

Via direct spinning natural paraffin is embedded in highly crystalline and tear resistant Cell Solution functional fiber. One of the long-known effects of paraffin is that it absorbs or empts heat when melting or solidifying. Thus unequaled many micro composite accumulators per unit can be processed.

The effect is that with comparable textile features greater heat accumulator capacity can be achieved (up to - or over 70 Joules per gram fiber).

Textiles manufactured on the basis of **Cell Solution Clima** can absorb excessive body heat and if required, dispense it. Thus temperature regulation is assured, providing extraordinary wearing comfort and an excellent micro climate.
• Based on Lyocell fiber
• Via direct spinning of paraffin
• More heat storage capacity
  For 6.7 dtex: >70 Joules/gram fiber
  For 3.3 dtex: >60 Joules/gram fiber
  For 2.3 dtex: >50 Joules/gram fiber
• Better and longer lasting performance of functions, because no losing capsules
• Smooth surface
• Better textile workability
• Cellulose fibres are wellknown for the perfect moisture management
• More than 80% of the fibres are natural rawmaterials (Cellulose and paraffin)
• Significant better functions than comparable products with microcapsules
Testings

Fields of application

Cell Solution®

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