



HEIQ[®] **SMART TEMP**

**Intelligent
Thermoregulation**

ACTIVATED COOLING

HeiQ Smart Temp is an innovative thermoregulation technology that provides fabrics with the ability to dynamically respond to body heat. The cooling function is activated when you are hot and sweaty and deactivated once cooling is complete.

**SWISS
TECH
INSIDE**



FOR TEXTILE

Outstanding qualities

- Keeps you cool and comfortable
- Revolutionary and patented dynamic cooling technology
- Up to 2.5°C/4.5°F cooler fabric temperature
- Helps to maintain a balanced temperature day and night

Added value

- Proven performance - more than 5'000 times successfully tested
- Durable and exceptional performance for the life-time of the product
- Used by 50+ major brands globally on more than 300 million garments
- Trusted technology for more than 10 years
- No impact on fabric properties

Wide-ranging applications

- Applicable to work on any fiber type: natural, synthetics and blends
- For apparel, hosiery & home textiles
- Suitable for most application methods

Standards

- bluesign approved
- OEKO-TEX suited
- ZDHC compliant
- Meets most brand RSL requirements

WHAT DOES IT DO?

HeiQ Smart Temp is a revolutionary textile technology that enables fabrics to interact with the body and dynamically respond to rising skin temperatures. HeiQ Smart Temp provides optimal cooling and comfortable dryness thanks to a patent pending hydro-functional polymer. The cooling function is activated when the body gets hot and sweaty, and deactivated once cooling is complete, ensuring optimal comfort and performance.

WHAT IS IT FOR?

HeiQ Smart Temp is ideally designed for clothing that are within reach of body heat and skin's moisture. Especially suitable for next-to-skin apparel, sportswear, activewear, intimates and hosiery, but also for the linings of winter garments and home textiles such as sheets, bedding accessories and mattress ticking.

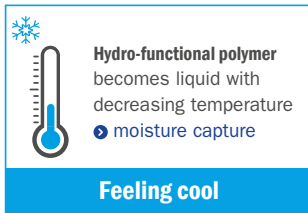
LIKE A SECOND SKIN

HeiQ Smart Temp mimics our body's natural ability to regulate body heat. Triggered by rising body temperature and moisture, the **vaporizing energy action** pushes away sweat together with heat to achieve a cooling effect. This effect is deactivated once cooling is complete or when there is a sudden drop in surrounding temperature. Therefore, helps to avoid the discomfort feeling chilly.


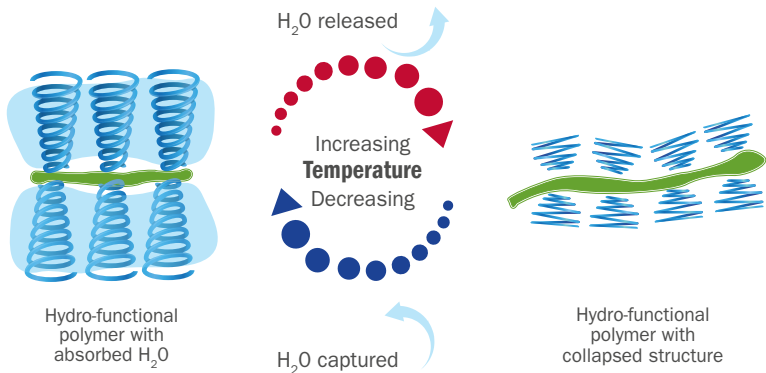
Vaporizing energy action

Continuous cooling activated by heat and sweat

The hydro-functional polymer changes its form and affinity to **moisture** at **different temperatures**.



Cooling **DEACTIVATED**

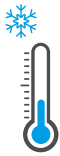


Hydro-functional polymer becomes solid with increasing temperature
➤ moisture release

Feeling hot & sweaty

Cooling **ACTIVATED**

Vaporizing energy action - DYNAMIC MOISTURE TRANSPORT

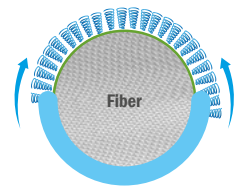
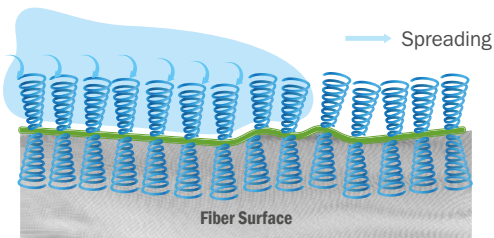


Feeling cool

- High moisture affinity
- Slow spreading
- Reduced evaporation

Cooling DEACTIVATED

Water spread is **slowed**
by the interaction with the polymer



Moderate moisture
spreading on fiber surface

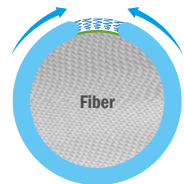
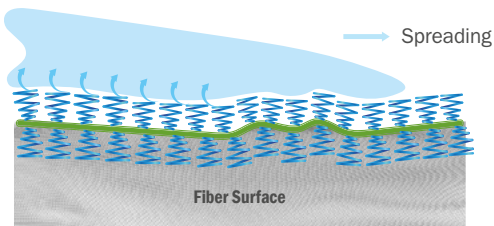


Feeling hot & sweaty

- Low moisture affinity
- Rapid spreading
- Faster evaporation

Cooling ACTIVATED

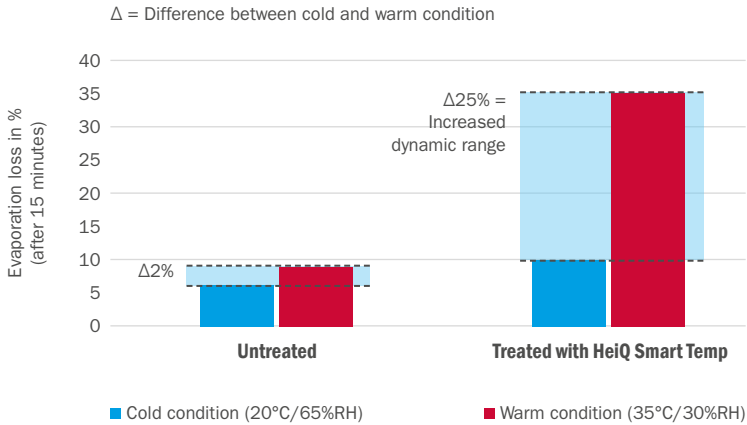
Water spread more **rapidly**
as interaction with polymer is weaker



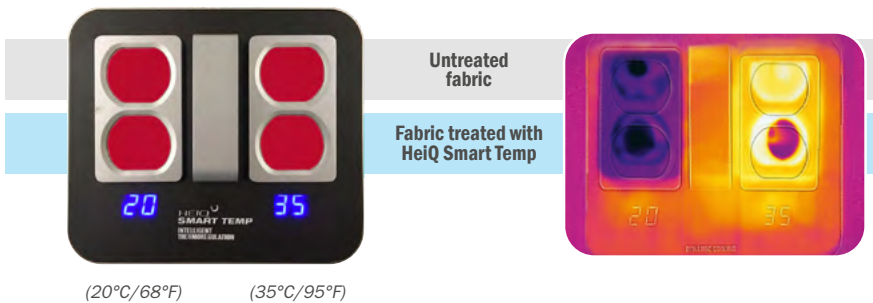
Rapid spreading of
moisture on fiber surface

DYNAMIC EVAPORATION TEST

Dynamic Evaporation performance - Untreated vs. HeiQ Smart Temp treated



MAKE HEIQ SMART TEMP VISIBLE



Watch
the video!



Making products more sustainable by adding intelligence to it

HeiQ Smart Temp technology is designed to meet the highest industry standards.

- Exceptional **efficiency and durability** to washing
- Bluesign approved, ZDHC compliant, OEKO-TEX suited and meets most brand RSL requirements

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**Get inspired and learn more about our innovative technologies
and marketing support on:**

www.heiq.com

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