



**HEIQ<sup>®</sup>**  
**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 patent pending 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.



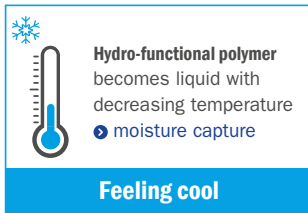
## LIKE A SECOND SKIN

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.

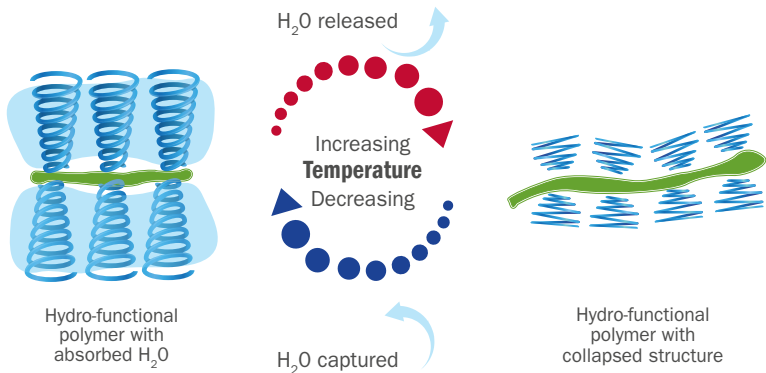
### Vaporizing energy action

#### Continuous cooling activated by heat and sweat

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



Cooling **DEACTIVATED**

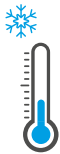


Hydro-functional polymer becomes solid with increasing temperature  
➤ moisture release

**Feeling hot & sweaty**

Cooling **ACTIVATED**

## Vaporizing energy action - DYNAMIC MOISTURE TRANSPORT

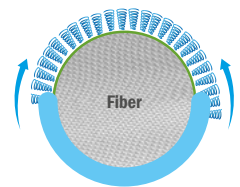
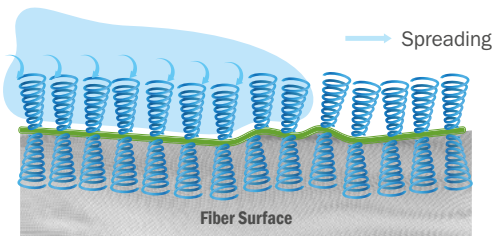


### Feeling cool

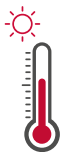
- High moisture affinity
- Slow spreading
- Reduced evaporation

### Cooling DEACTIVATED

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



Moderate moisture  
spreading on fiber surface

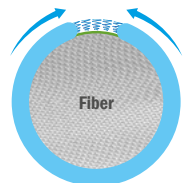
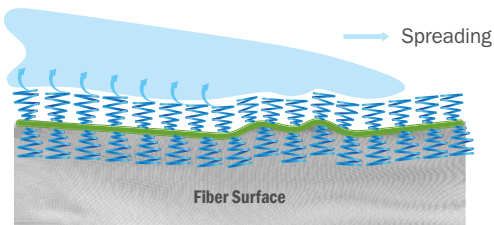


### Feeling hot & sweaty

- Low moisture affinity
- Rapid spreading
- Faster evaporation

### Cooling ACTIVATED

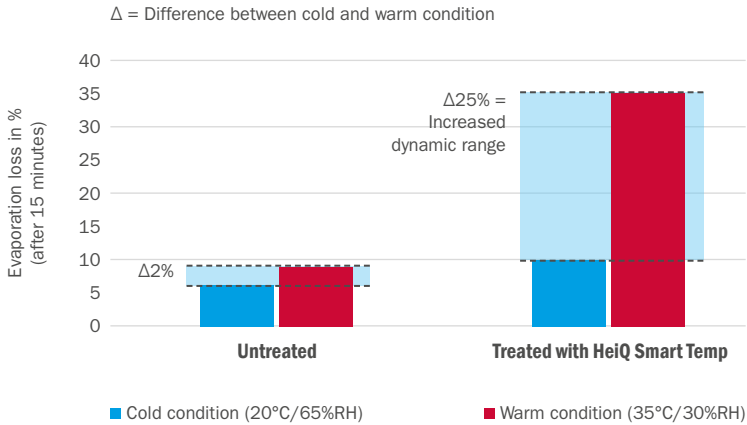
Water spread more **rapidly**  
as interaction with polymer is weaker



Rapid spreading of  
moisture on fiber surface

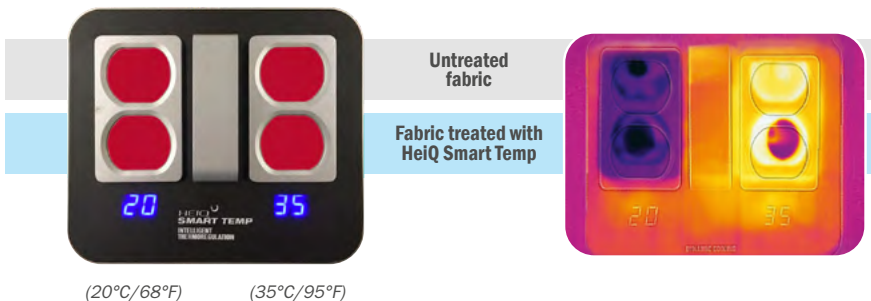
## DYNAMIC EVAPORATION TEST

Dynamic Evaporation performance - Untreated vs. HeiQ Smart Temp treated



The HeiQ Smart Temp treated fabric provides an increased dynamic range

## 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

# HEIQ<sup>®</sup> SMART TEMP





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and marketing support on:**

**[www.heiq.com](http://www.heiq.com)**

**HeiQ Materials AG**

Ruetistrasse 12,  
8952 Schlieren (Zurich)  
Switzerland

[info@heiq.com](mailto:info@heiq.com), +41 56 250 68 50