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.





FOR TEXTILE





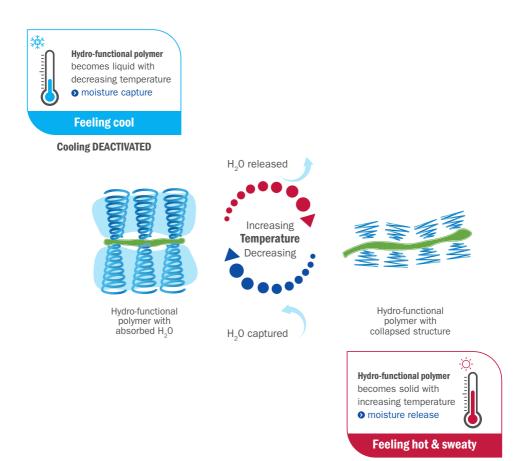
LIKE A SECOND SKIN

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 ACTIVATED

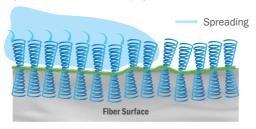
Vaporizing energy action - DYNAMIC MOISTURE TRANSPORT



Feeling cool

- Cooling DEACTIVATED
- High moisture affinity
- · Slow spreading
- · Reduced evaporation

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



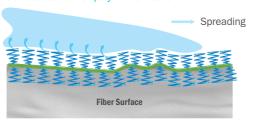


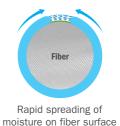


Feeling hot & sweaty

- Cooling ACTIVATED
- Low moisture affinity
- Rapid spreading
- Faster evaporation

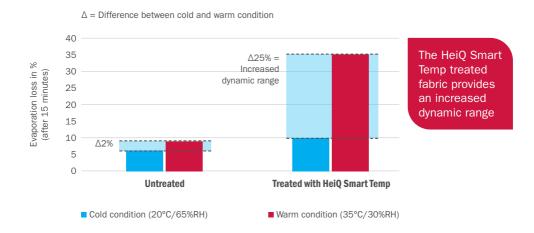
Water spread more **rapidly** as interaction with polymer is weaker





DYNAMIC EVAPORATION TEST

Dynamic Evaporation performance - Untreated vs. HeiQ Smart Temp treated



MAKE HEIQ SMART TEMP VISIBLE







Making products more sustainable by adding intelligence to it

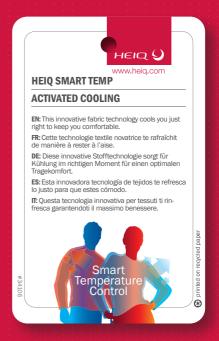
HeiQ Smart Temp technology is designed to meet the highest industry standards.

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









Get inspired and learn more about our innovative technologies info@heiq.com

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