

## E.COOLINE POWERCOOL SX3 SHIRTVEST

### PRODUCT DESCRIPTION

The E.COOLINE Powercool SX3 ShirtVest cools the body and thus protects employees in hot and heat workplaces. Construction workers, athletes and private individuals benefit from the health effects of a cooler body:

- lowers the body temperature to a normal physiological level,
- improves concentration and performance,
- consists of a 3 D-system with smart fibers, which, when activated with water, produces a significant cooling effect depending on the temperature, up to 660 watts,
- stabilizes body temperature to prevent fatigue and cardiovascular problems,
- with a physiological temperature of up to 12°C, which is perceived as pleasant cooling effect which lasts longer than a working day.

### PRODUCT BENEFITS

- Fastest activation without preparation (saving of working time)
- Dry inside and outside, pleasant surface instead of hours of humidity/wetness
- For all tops: Health protection as kidney area remains free from cooling
- Washability (machine) with detergent and thus hygienic application
- 100% climate-neutral product and technology Made in Germany
- Only cooling product with confirmed cooling effect by Hohenstein

### PRODUCT INSTRUCTION

E.COOLINE products

- are activated evenly with water in a few seconds and can be put on immediately
- worn as any other vest or the normal clothes.
- Washing instructions: Wash separately. Dry cleaning @, machine wash or hand wash (30°C) with pH neutral detergent. Do not tumble or spin dry, do not use functional or color detergent that does contain fiber protection, no bleaching.
- Industrial washing according to instructions.
- To dry completely, simply hang in an airy space.
- Storage: in a dry place with air exchange.

Please note the instructions attached to the product!



### TECHNOLOGY



Article number 27101330

HS-Number 63079098

### Sizes

	XXS	XS	S	M	L	XL	2XL	3XL	4XL	5XL
Chest size (cm)	84	88	92	96	100	106	114	120	122	130
	to 88	92	96	100	106	114	120	126	130	138

### Packing

Vest per piece packed in plastic bag with zipper and instructions.

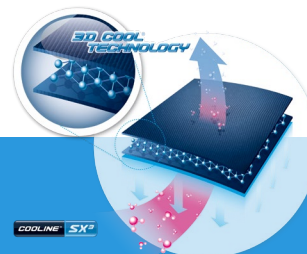
### TECHNICAL DATA

The 3D- high-tech fleece made of polyester is able to store 0,5-0,7 liters of water directly on the fibres due to a superabsorbent surface. There is no condensation. When properly activated and worn there are no water drops on the clothes. The body and clothes of the user remain dry.

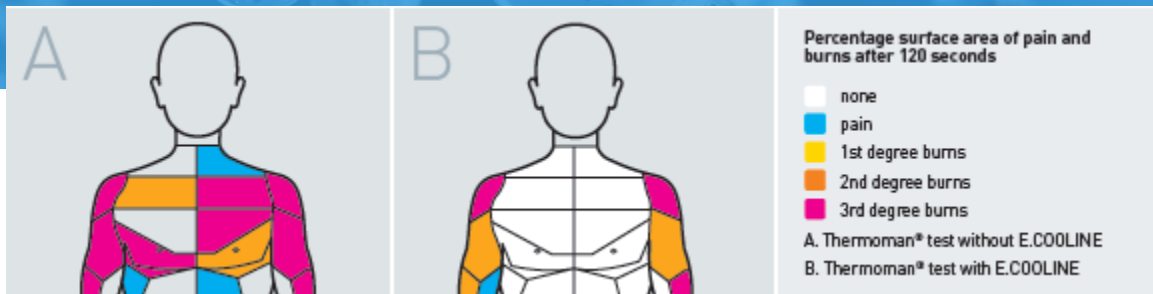
The water inside can no longer be squeezed out; it escapes only through evaporation, physically producing evaporative cooling of up to 660 watt – depending on a slight air movement. Due to the large surface of the 3D-fleece, this effect is significantly higher than with other superabsorbent materials.

In the field of medical applications, the product has CE Class 1 certification in Europe.

- outer fabric: Oekotex 100
- sizes: XXS- 5XL
- colors: black (col-no. 200)
- 3 layer material: outer material: 100% Polyester, mesh-material: 83% PES, 17% EL core material: 100% COOLINE ®Polyester (super absorber)
- outer fabric antibacterial due to DEOXX fresh (natural silver ions, complies with BPR EU Regulation No. 528/2012) for hygienic reasons
- siliconfree version



# TESTS AND STUDIES

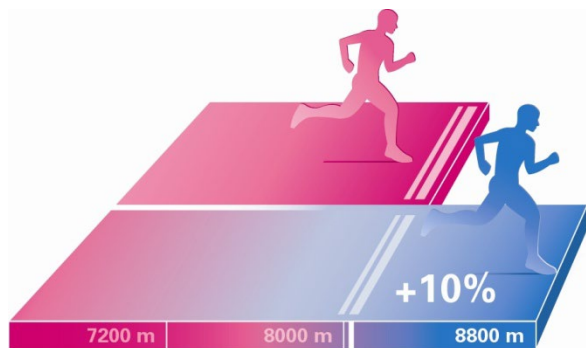


\*Thermoman® is a registered Trade Mark of E.I. du Pont de Nemours Company

## E.COOLINE WAS TESTED BY EMPA IN ST. GALLEN UNDER EXTREME CONDITIONS

The "Thermoman" study conducted by the national research institute Empa - Materials Science and Technology in St. Gallen confirmed the cooling effect of COOLINE. The areas of the body protected with COOLINE showed a lower temperature rise than the areas that were not protected with the new high-tech fleece.

## SPORTS SCIENCE PROVES 110% PERFORMANCE



Heat limits human performance at work because the heat-related effects cause 90% of energy to be spent on temperature regulation such as sweating, in addition to an increased heart rate.

This leads to lower concentration and performance. In addition to an increased risk of accidents as a result, there are also health problems due to exhaustion syndromes and a higher cardiovascular load.

In a randomized study conducted by the Universities of Münster and Dortmund, athletes were able to increase their performance up to 110% at 30°C.

Important body parameters such as heart rate and lactate values were significantly improved.

## USER REPORTS IN NUMEROUS COMPANIES AND INDUSTRIES WITH IR CAMERA PROVE THE SIGNIFICANT TEMPERATURE REDUCTION

