

TEXTILE FUNCTIONS

focus on functional fabrics

Innovative materials for workwear and ppe -
protection and function in knitted or woven
fabrics

B-COOL

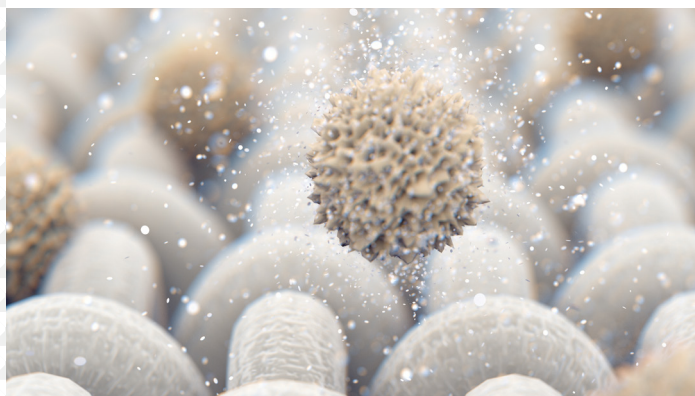
PERFORMANCE POLYESTER FIBER



B-COOL

PERFORMANCE POLYESTER FIBER

- | **Active cooling in contact with moisture**
- | **Skin-friendly due to higher stored moisture in the yarn**
- | **Moisture management**
- | **Quick re-dry effect**
- | **High breathability**
- | **Durable with 100% polyester and high filament content**
- | **100% sustainable - 100% recycled polyester (certified according to GRS 4.0)**
- | **Increased sun protection with yarn modification**
- | **No odor due to antibacterial effect**
- | **Possible uses in knitwear and fabrics**



TECHNOLOGY

Global warming requires new functions in textiles and optimized wearing properties with increased comfort. The B-COOL high-tech technology modifies yarns with inherent functions, with the COOLING function always being the FOCUS. The material cools down when it comes into contact with warm, moist skin. This effect is stronger with more intensive contact with moisture through perspiration. The modification gives the material a high specific heat capacity and thus affects the sensation of warmth. The water content in normal polyester is 0.4%, while the high-tech B-COOL fiber has a value of 4.5%. This means an increase of 450%. This water temperature is lower than the skin temperature and the feel of the material is very pleasant and cool due to this property.

B-COOL was tested for the active cooling effect in the Q-Max value by the independent institute SGS.

B-COOL fabrics are ideal for use in the sun thanks to an effective UV protection effect.

The antibacterial function of B-COOL is very environmentally friendly and ensures a permanently fresh smell.

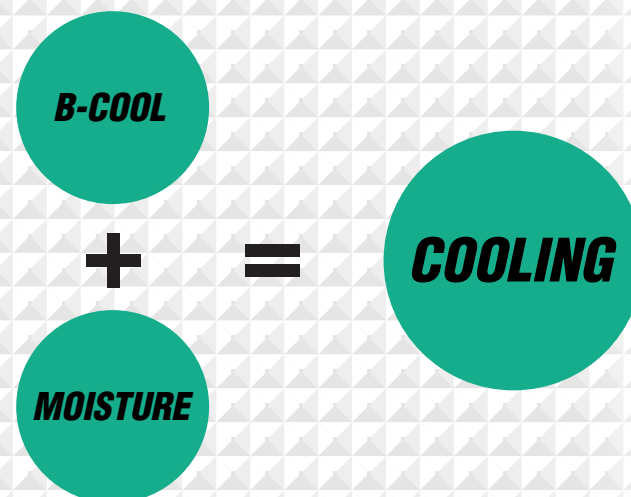
B-COOL is made of 100% recycled polyester and is certified according to GRS 4.0. The material is branded on the inside with a B-COOL print.

CERTIFICATIONS

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100

intertek
Total Quality. Assured.

Global Recycled
Standard



B-COOL

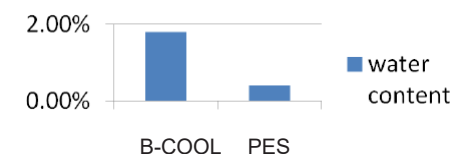
PERFORMANCE POLYESTER FIBER

TEST EXTRACTS

QMAX - COOLING TEST



TEST FOR MOISTURE CONTENT



BACTERIA TEST

Antibacterial Finishes on Textile Materials (AATCC 100 - 2012)

Test Bacteria : Staphylococcus aureus ATCC No. 6538		
Test Group	CFU/mL	Reduction (R)%
Untreated control at "0" hr (C)	1.7×10^5	>99.9
Untreated control at "24" hr (B)	1.4×10^5	
Treated test at "24" hr (A)	<100	

Tested side: Face side
After 25 washes*

Test Bacteria	T (mm)	D (mm)	W (mm)	Contact Area
Staphylococcus Aureus ATCC No. 6538	25	25	0	No Growth
Klebsiella pneumoniae ATCC No. 4352	25	25	0	No Growth

UV PROTECTION TEST

As received

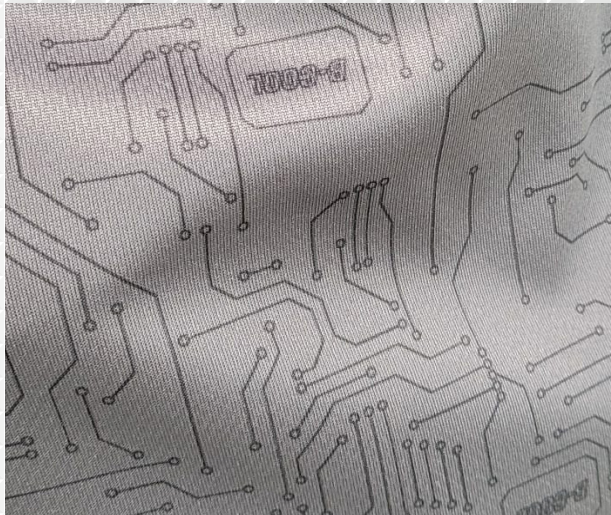
	Dry evaluation	Wet evaluation
Ultraviolet Protection Factor (UPF) :	74	51
Standard Deviation :	0.19	0.22
Rated UPF :	50+	50+
Protection Category :	Excellent	Excellent
Percent Transmittance, T (UV-A) :	0.64	14.34
Percent Transmittance, T (UV-B) :	0.46	0.60
The Percent Blocking, UV-A :	90.36	85.66
The Percent Blocking, UV-B :	99.54	99.40

B-COOL

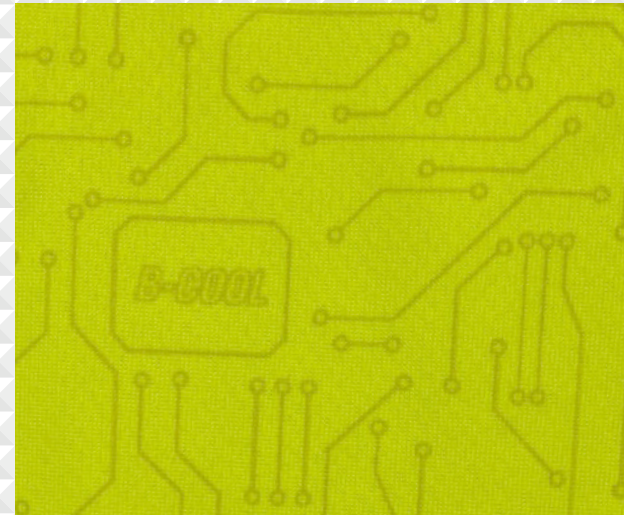
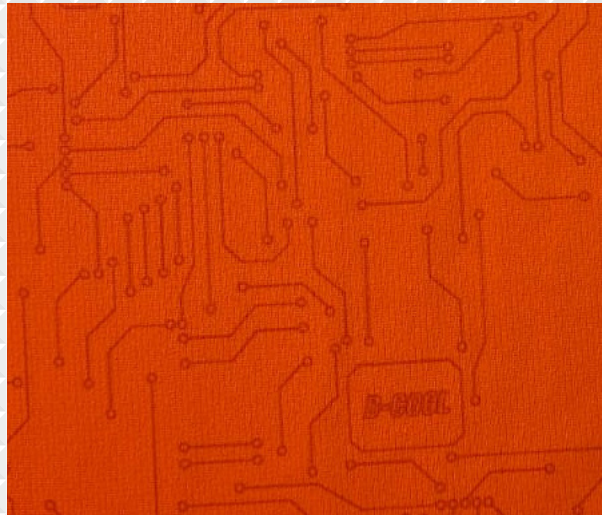
PERFORMANCE POLYESTER FIBER

B-COOL is a yarn modification and can be used in all blends, knits and fabrics. The higher the proportion of B-COOL, the more effective the functions are.

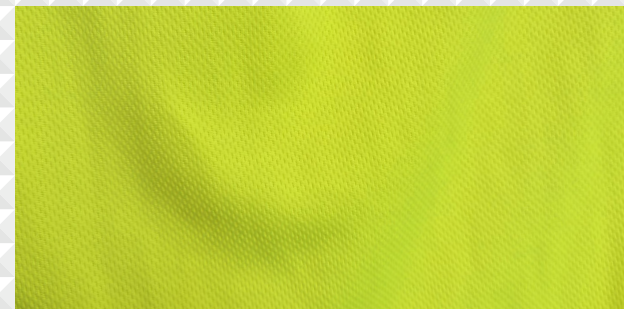
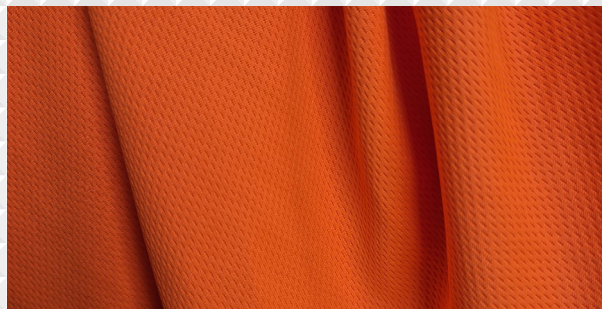
B-COOL - Active cooling made from 100% recycled polyester



Inside with sublimation print



Bird-eye knit look on the outside



Other brands from the collection:

**NILIT®
TOUGHTEX**

HIGH END PERFORMANCE
IN POLYAMIDE

B-COOL
PERFORMANCE POLYESTER FIBER

PERFORMANCE POLYESTER FIBER

CORDURA®
Fabric

STRONG FIBERS FOR
STRONG MOMENTS

GRITEC 

POLYESTER - AS STRONG AS STEEL

Volcano
multinorm ppe fabrics

MULTINORM PPE FABRICS



FUNCTIONAL NATURAL FIBER



THERMAL ISOLATION MADE
FROM NATURAL ADDITIVES



COOLING POLYAMIDE

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