

# **Performance apparel markets: product developments and innovations, 4th quarter 2014**

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## **Abstracts**

This report provides information on the latest developments in antimicrobial treatments for wool fabrics; fabrics for functional apparel; inks for wearable electronics; insulating gloves; insulating materials; medical textiles; performance fibres; performance yarns; protective apparel for military applications; protective apparel for sport; sports apparel; and wearable technology. The report includes news from the following innovative companies and other organisations: Ahlstrom, BASE360, DSM Dyneema, DuPont Microcircuit Materials (MCM), DWI Leibniz-Institut f?r Interaktive Materialien (DWI Leibniz Institute for Interactive Materials), Garmatex, Hexoskin, Kelheim Fibres, Nike, Ohmatex, Outlast Technologies, PrimaLoft, Project Clothing, Safil, TexiSense, the Hohenstein Institute, wfk - Institut f?r Angewandte Forschung (wfk - Cleaning Technology Institute) and WL Gore.

## Contents

### SUMMARY

#### ANTIMICROBIAL TREATMENTS FOR WOOL FABRICS

The Hohenstein Institute and DWI Leibniz-Institut F?r Interaktive Materialien:  
antimicrobial treatments for wool fabrics

#### FABRICS FOR FUNCTIONAL APPAREL

WL Gore: new backing fabric called C-Knit Backer Technology for use in Gore-Tex  
laminates

#### INKS FOR WEARABLE ELECTRONICS

DuPont Microcircuit Materials (MCM): inks for use in wearable electronics

#### INSULATING GLOVES

WL Gore: new insulating gloves for snow sports

#### INSULATING MATERIALS

Outlast Technologies: new insulative filling material called Universe  
PrimaLoft: new insulating material called PrimaLoft Silver Insulation Active

#### MEDICAL TEXTILES

Ahlstrom: new fabric called VaporCool for medical applications  
The Hohenstein Institute and wfk – Institut f?r Angewandte Forschung: reusable surgical  
gowns for medical staff

#### PERFORMANCE FIBRES

Kelheim Fibres: new viscose fibre which reflects infrared (IR) radiation

#### PERFORMANCE YARNS

Safil: new range of yarns called ActiveYarn for use in outdoor apparel

## **PROTECTIVE APPAREL FOR MILITARY APPLICATIONS**

DSM Dyneema: concept vest for female soldiers

## **PROTECTIVE APPAREL FOR SPORT**

BASE360 and Garmatex: protective garments for ice hockey players

## **SPORTS APPAREL**

Nike: Nike Hyperwarm Flex base layer garments for male athletes training in cold environments

Project Clothing: first collection of garments for winter outdoor sports

## **WEARABLE TECHNOLOGY**

Hexoskin: Hexoskin Arctic men's fitness monitoring T-shirt for wearing in cold environments

Ohmatex and TexiSense: emBrace pressure sensing T-shirt for scoliosis patients

Ohmatex: fitness monitoring clothing for astronauts

## List Of Figures

### LIST OF FIGURES

Figure 1: Gore-Tex laminate with C-Knit Backer Technology

Figure 2: DuPont MCM inks for wearable electronics

Figure 3: Gore-Tex gloves with + Gore warm technology

Figure 4: Ahlstrom VaporCool fabric

Figure 5: Base Perform Shirt

Figure 6: Nike Hyperwarm Flex base layer shirt

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