

# **Performance Apparel Markets: Product Developments and Innovations, 4th Quarter 2012**

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## **Abstracts**

This report provides information on the latest developments in: environmentally friendly materials; fabrics for performance apparel; fabrics for protective clothing; fabric treatments; fibres and yarns for performance apparel; finishing treatments; sportswear; water repellent down filling; and wearable technology. The report also includes news from the following innovative companies and organisations: AeonClad Coatings, Alexium International, Beal Manufacturing, Clearbridge VitalSigns, Dick's Sporting Goods, Hologenix, Kelheim Fibres, Kjus, Lawrence Livermore National Laboratory (LLNL), Maxim Integrated Products, Mount Vernon Mills, New York College of Health Professions, Orbital Research, Patagonia, Pharr Yarns, Polartec, PurThread Technologies, Schoeller Textil, WL Gore and Yulex Corporation.

## Contents

### SUMMARY

### ENVIRONMENTALLY FRIENDLY MATERIALS

Patagonia and Yulex have developed a wetsuit made mostly from a renewable biorubber

### FABRICS FOR PERFORMANCE APPAREL

Polartec has developed a new fabric called Polartec Alpha  
WL Gore has developed a new laminate fabric for outerwear which increases breathability by up to 28%

### FABRICS FOR PROTECTIVE CLOTHING

Scientists at the Lawrence Livermore National Laboratory (LLNL) are developing a new material made from carbon nanotubes (CNTs) which can repel chemical and biological agents

### FABRIC TREATMENTS

Mount Vernon Mills has developed a new softening treatment for its flame resistant (FR) fabrics  
Schoeller Textil has developed a new finishing treatment for fabrics called solar+

### FIBRES AND YARNS FOR PERFORMANCE APPAREL

Kelheim Fibres has developed a new viscose speciality fibre called Umberto  
Purthread Technologies has developed a new range of high performance fibres and yarns called Sabiya

### FINISHING TREATMENTS

Alexium International has developed its flame retardant (FR) chemistry for nylon so that it can be applied using traditional heat curing methods

### SPORTSWEAR

Dick's Sporting Goods has launched a new range of sportswear which incorporates Hologenix's Celliant technology to increase oxygenation in body tissue  
New York College of Health Professions has developed a range of functional acupuncture garments called MyChi

## **WATER REPELLENT DOWN FILLING**

Patagonia has developed a water repellent down filling using its new Encapsil technology

## **WEARABLE TECHNOLOGY**

Clearbridge Vitalsigns, Maxim Integrated Products and Orbital Research have jointly developed a new T-shirt which monitors vital signs of the wearer

## List Of Figures

### LIST OF FIGURES

Figure 1: Image showing Polartec Alpha being used as an insulation layer

Figure 2: Comparison of a previous Gore-Tex Pro laminate and the new Gore-Tex Pro laminate

Figure 3: A jacket finished with solar+

Figure 4: An image showing cross-sections of Umberto fibres

Figure 5: Image showing the Fit T-shirt and a list of integrated components

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