

# **Performance Apparel Markets: Product Developments and Innovations, 2nd Quarter 2011**

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## **Abstracts**

This report provides new information on the latest developments in protective clothing, sports apparel, temperature regulating apparel and workwear. It also highlights a number of new fibres, yarns, fabrics, dyes and treatments which have been developed for performance apparel. The report includes news from the following innovative companies and organisations: Advansa, APT Fabrics, Australian Wool Innovation (AWI), Bayer MaterialScience, Bezema, Big Bill, BigSky Technologies, Cornell University, Dastex, Huntsman Textile Effects, Invista, Jockey International, Kingwhale, Kiplay, LincSpun Yarns, Luxilon Industries, Mekkey, Mico Sport, Name Droppers Manufacturing, Nano-Tex, Nilit, Outlast Technologies, Performance Sports Brands, Polartec, Protex International, RadiciSpandex, RMIT University, Schoeller Technologies, Teijin Fibers and Toray Textiles Europe.

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### SUMMARY

### DYEING

Huntsman Textile Effects has added three new fluorescent dyes to its Terasil FF disperse dye range

### DYEING TECHNOLOGY

Kingwhale has developed a new technology for dyeing polyester fabrics

### FABRICS FOR PERFORMANCE APPAREL

APT Fabrics has developed the “world’s first thermoregulating, waterproof, breathable and windproof fleece” fabric

Australian researchers are developing materials made from a blend of wool and Kevlar for ballistic applications

Polartec has developed a waterproof breathable fabric called Polartec NeoShell

Researchers at Cornell University have developed a fabric which can selectively trap gases

Teijin fibers has developed a new stain resistant polyester fabric which can absorb water and repel oil

Toray Textiles Europe has developed a new range of protective fabrics

### FABRIC TREATMENTS

Bayer MaterialScience has developed a polyurethane dispersion called Impranil XP 2772 which can be used as a coating in the manufacture of protective gloves

BigSky Technologies has been issued the first in a series of patents for a biomimicry fabric finish

Nano-Tex has developed a new form of water repellent technology called Aquapel

Protex International has introduced a new softening agent called Rexamine CP 9194 AL

Schoeller Technologies and Bezema have developed a new version of coldblack which is suitable for industrial laundering

Schoeller Technologies has developed a new method of applying its energear technology

## **FIBRES AND YARNS FOR PERFORMANCE APPAREL**

LincSpun Yarns and Nilit have developed a new yarn called Trinomax AQ  
Luxilon Industries has developed a cooling monofilament yarn called Luxicool  
RadiciSpandex is developing an eco-friendly elastane fibre using biopolymer

## **PROTECTIVE APPAREL**

Big Bill will introduce a new range of garments which incorporate Polartec's Flame Resistant (FR) technology  
Daastex has developed base layer cleanroom garments using Advansa's Coolmax fresh fabric

## **SPORTS APPAREL**

Mico Sport has introduced a new range of trekking socks which incorporate Thermo°Cool fibres  
Performance Sports Brands has developed a new line of golf apparel using IonX smart fabric

## **TEMPERATURE REGULATING APPAREL**

Jockey International has introduced a new line of temperature regulating undergarments

## **WORKWEAR**

Kiplay has developed workwear garments which incorporate Cordura brand fabric  
Mekkey has introduced a new range of T-shirts for the Dutch Fire Service which incorporate Thermo°Cool fibres

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