

Product Developments and Innovations in Textiles and Apparel, September 2013 edition

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Abstracts

This report analyses some of the latest developments and innovations in the global textile and clothing industry, including: anti-counterfeiting tools; antimicrobial sewing thread; apparel sizing and fit; compression garments; dyes and inks for apparel fabrics; environmentally friendly finishing treatments; environmentally friendly textiles and apparel; fibres, yarns and fabrics for functional textiles and apparel; finishing treatments; functional apparel; health-promoting apparel; odour-eliminating apparel; restricted substances management software; smart clothing; thread inventory management; and water repellent down filling. The report includes news from the following innovative companies and other organisations: Alvanon, AeonClad Coatings, Beal Manufacturing, Bodymetrics, Chalmers University of Technology, Clearbridge VitalSigns, Coats, Dick's Sporting Goods, Ecoyaa, Engineering and Physical Sciences Research Council (EPSRC), Fraunhofer-Einrichtung für Modulare Festkörper-Technologien (EMFT-Fraunhofer Research Institution for Modular Solid State Technologies), Freudenberg New Technologies, Guided, Harvard University, Huntsman Textile Effects, Hohenstein Institute, Hologenix, Invista, ITV Denim, Kelheim Fibres, Levi Strauss & Co, London College of Fashion, New York College of Health Professions, Marks and Spencer (M&S), Maxim Integrated Products, MC10, MMT Textiles, Nike, Novozymes, Orbital Research, Odegon Technologies, Patagonia, Pelham and Strutt, Performance 3D, Pharr Yarns, PolyOne, PurThread Technologies, Puma, Reebok, Riedel Textil, Schoeller Textil, Select Research, TEXbase, UBAK, University of Exeter, University of Southampton, University of Surrey, Vodafone and WL Gore.

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SUMMARY

ANTI-COUNTERFEITING TOOLS

A new yarn can help to prevent branded apparel from being counterfeited
Kelheim Fibres has developed a new viscose fibre incorporating luminescent pigments which provide it with a unique “fingerprint”

ANTIMICROBIAL SEWING THREAD

Coats has developed a new range of antimicrobial sewing threads called Coats Protect

APPAREL SIZING AND FIT

Alvanon and Select Research have developed a new sizing standard for children’s clothing in the UK

Alvanon and the Hohenstein Institute have launched the AlvaForm Hohenstein Series
Researchers are developing a new online software program which can take detailed body measurements and provide size recommendations

COMPRESSION GARMENTS

Pelham and Strutt has developed a new compression T-shirt which can help to improve posture and reduce back pain

DYES AND INKS FOR APPAREL FABRICS

ITV Denim has developed a denim fabric which is dyed using a dye made from red wine
Polyone has developed a new range of inks for printing on to fabrics for sportswear

ENVIRONMENTALLY FRIENDLY FINISHING TREATMENTS

Freudenberg New Technologies has developed a new range of environmentally friendly fabric finishing treatments

Huntsman Textile Effects has developed a new range of fluorine-free finishing treatments

ENVIRONMENTALLY FRIENDLY TEXTILES AND APPAREL

Levi Strauss & Co has developed a new denim collection called Waste Less which incorporates recycled polyester

Nike has developed a new version of its Hyper Elite basketball uniform which is made using recycled polyester

Puma has developed its first collection of products which are entirely biodegradable or recyclable

FIBRES, YARNS AND FABRICS FOR FUNCTIONAL TEXTILES AND APPAREL

A team of scientists has developed a new polymer fibre which changes colour when it is stretched

Kelheim Fibres has developed a new viscose speciality fibre called Umberto

Kelheim Fibres has developed a viscose fibre which has inherent water repellent properties

MMT Textiles has developed a new bicomponent moisture management fibre called Inotek

Purthread Technologies has developed a new range of high performance fibres and yarns called Sabiya

Researchers have developed new gloves which can change colour to indicate the presence of a toxic substance

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

FINISHING TREATMENTS

Marks and Spencer (M&S) is using a new finishing technology called Stay New which helps to keep its garments looking new for longer

Schoeller Textil has developed a new finishing treatment for fabrics called solar+

FUNCTIONAL APPAREL

UBAK has developed an airbag which inflates to protect the wearer's head and neck in the event of an avalanche

HEALTH-PROMOTING APPAREL

Clearbridge VitalSigns, Maxim Integrated Products and Orbital Research have jointly

developed a new T-shirt which monitors the vital signs of the wearer
Dick's Sporting Goods has launched a new range of sportswear which incorporates hologenix's Celliant technology to increase oxygenation in body tissue
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Puma has developed a new range of sportswear which incorporates hologenix's Celliant technology
Reebok and MC10 have developed a new skull cap which can detect when an athlete has received a serious blow to the head
Riedel Textil has developed a new range of seamless knitted shorts for use during sporting activities

ODOUR-ELIMINATING APPAREL

Odegon Technologies has developed a fabric tag which eliminates odours caused by perspiration

RESTRICTED SUBSTANCES MANAGEMENT SOFTWARE

TEXbase has launched a new software program which can help companies to manage and comply with restricted substances lists

SMART CLOTHING

Performance 3D has developed three ranges of garments which help athletes to improve the way their bodies move during sporting activities
Vodafone has developed prototypes of a pair of shorts and a sleeping bag which can charge a mobile phone

THREAD INVENTORY MANAGEMENT

Coats has developed a new tool which helps apparel manufacturers to manage their excess thread inventories

WATER REPELLENT DOWN FILLING

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