

Technical Textile Markets: Product Developments and Innovations, 4th Quarter 2012

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Abstracts

This report provides information on the latest developments in environmentally friendly fabrics for technical textiles, fabrics for protective clothing, fibres and yarns for technical textiles, finishing treatments, floorcoverings, medical textiles, performance-enhancing aids for athletes and technical textile products for sailing. The report includes news from the following innovative companies and organisations: Alexium International, Center for Regenerative Therapeutics at Brigham and Women's Hospital (BWH), EMPA, Fraunhofer-Institut für Zuverlässigkeit und Mikrointegration, Imperial College London, Interface, Lawrence Livermore National Laboratory (LLNL), Lenzing, Massachusetts Institute of Technology (MIT), Molecular and Industrial Biotechnology Group (GBMI), PurThread Technologies, Samson, SSM Industries, The University of Manchester, and the University of Texas at Dallas (UT Dallas).

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SUMMARY

FABRICS FOR TECHNICAL TEXTILES

Researchers at the Fraunhofer Institute for Reliability and Microintegration have developed a smart fabric which is designed to detect intruders

FABRICS FOR PROTECTIVE CLOTHING

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

SSM Industries has developed two new flame resistant cotton fabrics called PRO-CFR 12 Cal and PRO-CFR + TransDRY

FIBRES AND YARNS FOR TECHNICAL TEXTILES

Lenzing has developed a new Tencel fibre for nonwovens called Tencel Biosoft

PurThread technologies has developed a new range of high performance fibres and yarns called Sabiya

Researchers at the University of Texas at Dallas (UT Dallas) have developed an artificial muscle made from carbon nanotube yarns

FINISHING TREATMENTS

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

FLOORCOVERINGS

Interface has produced its first carpet tile made from bio-based polyamide

Scientists at the University of Manchester have developed a “magic carpet” which can help to prevent falls

MEDICAL TEXTILES

EMPA, Schoeller Medical and the Swiss Paraplegic Centre (SPC) have jointly developed a bed sheet which helps to prevent pressure ulcers

A new treatment which improves the antimicrobial properties of medical textiles has been developed

Researchers have developed a new medical tape which can be removed without damaging delicate skin

PERFORMANCE-ENHANCING AIDS FOR ATHLETES

Engineers at Imperial College London have developed a prototype vibrating armband device which is designed to help athletes with muscle memory

TECHNICAL TEXTILE PRODUCTS FOR SAILING

Samson has developed two new lines for running rigging

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