

# Technical textile markets: product developments and innovations, 1st quarter 2014

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## Abstracts

This report provides information on the latest developments in coatings; fibres for technical textiles; medical textiles; new machinery; new materials; protective apparel; smart fabrics; and yarns for technical textiles. The report includes news from the following innovative companies, individuals and organisations: Airospring Medical, National Institute of Standards and Technology (NIST), Bulwark, Cityzen Sciences, DSM Dyneema, Eastman Chemical Company, Freudenberg Nonwovens, Huntsman Textile Effects, Juba PPE, MarkForged, Milliken, ShowaBest, TJ Beall Company and University of Texas at Dallas (UT Dallas).

## Contents

### SUMMARY

### COATINGS

National Institute of Standards and Technology (NIST): carbon nanotube-based coating which reduces the flammability of polyurethane foam

### FIBRES FOR TECHNICAL TEXTILES

Eastman Chemical Company: new type of polyethylene terephthalate (PET) microfibre for use in filtration

### MEDICAL TEXTILES

Airospring Medical: seating cushions which help to relieve pressure on the skin

Freudenberg Nonwovens: new material for wound dressings made from hydroactive fibres and chitosan fibres

### NEW MACHINERY

MarkForged: three-dimensional (3D) printer which can be used to print objects using carbon fibres

### NEW MATERIALS

Huntsman Textile Effects and TJ Beall Company: new nonwoven material for use in diaper topsheets

### PROTECTIVE APPAREL

Bulwark and Milliken: new range of flame resistant (FR) protective apparel

Juba PPE: new glove which incorporates dyneema diamond technology yarn

ShowaBest: new biodegradable nitrile gloves called Green-Dex

### SMART FABRICS

Cityzen Sciences: new smart fabric which can be used to produce garments that

monitor the wearer's vital signs and movements

## **YARNS FOR TECHNICAL TEXTILES**

An international research team led by the University of Texas at Dallas: artificial muscle made from fishing line and sewing thread

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