

# Technical Textile Markets: Product Developments and Innovations, 3rd Quarter 2014

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## Abstracts

This report provides information on the latest developments in fabrics for workwear, floor panels, medical textiles, nanotechnology, new fabrics, new fibres for technical textiles, new machinery, new materials and protective workwear. In particular, the report includes news from the following innovative companies and other organisations: Deutsches Elektronen-Synchrotron (DESY), Empa (Eidgenössische Materialprüfungs- und Forschungsanstalt - Swiss Federal Laboratories for Materials Science and Technology), G&K Services, GPF One, Johns Hopkins University, KTH Royal Institute of Technology, Max Planck Institut für Festkörperforschung (Max Planck Institute for Solid State Research), National Safety Apparel (NSA), Pennsylvania State University, Scott & Fyfe, Shinshu University, Supramat-Swiss, Surrey NanoSystems, Technical Absorbents and UOP.

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### SUMMARY

### FABRICS FOR WORKWEAR

Technical Absorbents: new fabric called K-Sorb containing superabsorbent fibres

### FLOOR PANELS

Empa and Supramat-swiss: scobavent and scobamat protective floor panels

Scobavent panels

Scobamat panels

### MEDICAL TEXTILES

Students at Johns Hopkins University: shirt which delivers shocks to patients experiencing serious heart problems

### NANOTECHNOLOGY

Researchers at Empa and Max Planck Institut fur Festkorperforschung: new method of synthesising single-wall carbon nanotubes

### NEW FABRICS

Scott & Fyfe: new flame resistant fabric called Polymat FR

### NEW FIBRES FOR TECHNICAL TEXTILES

Researchers at KTH Royal Institute of Technology: method of producing cellulosic fibres which are stronger than steel

Researchers at Pennsylvania State University and Shinshu University: “super-stretchable” conductive yarn made from graphene

### NEW MACHINERY

UOP: new biological waste water treatment system suitable for textile manufacturing processes

## **NEW MATERIALS**

GPF One: coloured carbon fibre composite called Hypetex

Surrey NanoSystems: new super black material called Vantablack

## **PROTECTIVE WORKWEAR**

G&K Services: new ranges of vented flame resistant uniforms and flame resistant knitwear

National Safety Apparel (NSA): new range of flame resistant (FR) workwear

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Figure 1: Diagram of single-wall CNT synthesis using hydrocarbon molecules on a platinum surface

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