

Technical Textile Markets: Product Developments and Innovations, 2nd Quarter 2013

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Abstracts

This report provides information on the latest developments in absorbent materials for oil spillages, electromagnetic wave blocking apparel, fibres for technical textiles, filter media, medical textiles, radiation blocking fabric, smart materials, technical textiles for medical applications and technical textiles for protective apparel. The report includes news from the following innovative companies and organisations: Ahlstrom, AMSilk, Centre for Applied Research at Tecnalia Research, Fraunhofer-Einrichtung für Modulare Festkörper-Technologien (EMFT -- Fraunhofer Research Institution for Modular Solid State Technologies), Harvard's School of Engineering and Applied Sciences (SEAS), Kelheim Fibres, Nano Labs, Smuggler, Tailorlux, Teijin, Texas Tech University, Wyss Institute and XLIM Institut de Recherche.

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SUMMARY

ABSORBENT MATERIALS FOR OIL SPILLAGES

A research study has found that low micronaire cotton is highly effective at absorbing crude oil

ELECTROMAGNETIC WAVE BLOCKING APPAREL

Smuggler has developed a range of suits which can block electromagnetic waves emitted by mobile phones

FIBRES FOR TECHNICAL TEXTILES

AMSilk has developed a proprietary process for producing recombinant spider silk fibre on an industrial scale

Kelheim Fibres has developed a new viscose fibre incorporating luminescent pigments which provide it with a unique “fingerprint”

FILTER MEDIA

Ahlstrom has developed a new material called Captimax for use in fuel filters

MEDICAL TEXTILES

Nano Labs has developed an innovative haemostatic material which helps to stop blood flow in wounds

RADIATION BLOCKING FABRIC

Teijin has developed a new fabric which is able to block radiation

SMART MATERIALS

Scientists at Harvard University have developed a new material which changes from being hydrophobic to hydrophilic as it is stretched

TECHNICAL TEXTILES FOR MEDICAL APPLICATIONS

Researchers at the Centre for Applied Research at Tecnalia Research and Innovation have developed a new fabric which is able to change its shape and rigidity

TECHNICAL TEXTILES FOR PROTECTIVE APPAREL

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

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Figure 1: Image showing how the hydrophobicity of the new material is altered when it is stretched

Figure 2: Image showing a glove which has changed colour in the presence of a toxic substance

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