

Technical textile markets: product developments and innovations, January 2018

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Abstracts

This report provides information on the latest developments in antimicrobial finishes, automotive components, coatings, composites, digital printing inks, filtration media, laminates, nonwovens, photonic textiles, spider silk, wearable technology, and wipes. Also, the report includes information and analysis relating to the following innovative companies and other organisations: 4a manufacturing, Ahlstrom-Munksjo, Daimaru Kogyo, Dainichi Giken, Empa (Eidgenossische Materialprufungs- und Forschungsanstalt—Swiss Federal Laboratories for Materials Science and Technology), Hexcel, Hexion, Hohenstein Group, Huntsman Textile Effects, Kelheim Fibres, North Thin Ply Technology (NTPT), Porsche, Teijin Frontier, Teijin Limited, the University of Cambridge, the University of Manchester and the University of Trento.

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SUMMARY

ANTIMICROBIAL FINISHES

The Hohenstein Group is exploring the use of Lewis acids as antimicrobial agents in textile finishes

AUTOMOTIVE COMPONENTS

Porsche has developed a wheel which is made from carbon fibre

COATINGS

Dainichi Giken, Daimaru Kogyo and Teijin Limited have collaborated in the development of a transparent aqueous flame retardant coating

COMPOSITES

Hexcel has developed a new prepreg and a new carbon fibre

Hexion has developed a new epoxy resin system which has low fire, smoke and toxicity (FST) properties

DIGITAL PRINTING INKS

Huntsman Textile Effects has developed a new range of digital printing inks which are stable to light and high temperatures

FILTRATION MEDIA

Teijin Frontier has developed a new filter bag which incorporates Nanofront fibre

LAMINATES

North Thin Ply Technology and 4a manufacturing have collaborated in the development of a new laminate material containing carbon fibre prepreg tape called Cimera micro sandwich

NONWOVENS

Ahlstrom-Munksjo has developed a breathable and impervious nonwoven fabric called PureArmor

PHOTONIC TEXTILES

Researchers at Empa have developed photonic textiles which can be used to treat newborn babies who suffer from jaundice

SPIDER SILK

Researchers at the University of Trento and the Cambridge Graphene Centre have developed a method of modifying spider silk threads in order to improve their mechanical properties

WEARABLE TECHNOLOGY

Researchers at the University of Manchester have developed flexible supercapacitors which can be printed on to textile substrates

WIPES

Kelheim Fibres has developed a new concept for wet wipes which are biodegradable and flushable

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Figure 4: Graphene oxide supercapacitors printed on cotton fabric

Figure 5: Viloft fibre

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