

Technical textile markets: product developments and innovations, June 2020

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Abstracts

This report provides information on the latest developments in automotive components, carbon fibres, composites, fibres for hygiene products, fibres for nonwovens, filter media, finishing treatments, insulation materials, machinery, nonwovens, spider silk and wearable technology. The report includes information and analysis relating to the following innovative companies and other organisations: 4M Carbon Fiber, Advansa, Alchemie Technology, Beaulieu Fibres International, Covestro, Freudenberg Performance Materials, HeiQ, Hexcel, Kelheim Fibres, Kraig Biocraft Laboratories, the Korea Advanced Institute of Science and Technology (KAIST), NaCa Systems, Ningbo Institute of Materials Technology and Engineering (CNITECH), Shima Seiki, Technical Absorbents, and Toyota Boshoku.

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SUMMARY

AUTOMOTIVE COMPONENTS

Hexcel and NaCa Systems have collaborated in the development of a sports car seat back made from a hybrid composite

CARBON FIBRES

4M Carbon Fiber has developed a carbon fibre which is stronger than carbon fibres manufactured using conventional processes

COMPOSITES

Covestro and Toyota Boshoku have collaborated in the development of a new polyurethane composite material for the LQ concept car

FIBRES FOR HYGIENE PRODUCTS

Kelheim Fibres' Galaxy fibre could be employed as an alternative to most of the synthetic fibres used in the acquisition and distribution layers of sanitary towels

FIBRES FOR NONWOVENS

Advansa has launched a new range of binder fibres called ADVA MegaBond for use in the manufacture of nonwovens which can be recycled easily

Beaulieu Fibres International has developed a new fibre called Meraspring for use in the manufacture of nonwoven products

FILTER MEDIA

Researchers at the Korea Advanced Institute of Science and Technology (KAIST) have developed a nanofibre membrane which can be used in the manufacture of reusable face masks

FINISHING TREATMENTS

HeiQ has developed a new antiviral and antibacterial textile finishing treatment called HeiQ Viroblock NPJ03

INSULATION MATERIALS

Freudenberg Performance Materials has launched a new biodegradable padding material as part of its comfortemp Thermal Insulation range

MACHINERY

Alchemie Technology has accelerated the launch of its Novara coating machine in response to the COVID-19 pandemic

Shima Seiki has developed a prototype flat knitting machine which could be used to manufacture three-dimensional (3D) carbon fibre preforms

NONWOVENS

Freudenberg Performance Materials has developed a nonwoven crimping material for use in the manufacture of footwear

Technical Absorbents has developed a new range of fabrics incorporating High Gel Strength (HGS) SAF (Super Absorbent Fibre)

SPIDER SILK

Kraig Biocraft Laboratories has developed new transgenic silkworms which are capable of producing “nearly pure spider silk”

WEARABLE TECHNOLOGY

Researchers at CNITECH have developed a textile-based sensor which is extremely robust and is resistant to fluids

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