

Technical Textile Markets: Product Developments and Innovations, May 2018

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Abstracts

This report provides information on the latest developments in carbon fibres, composites, fabrics, fibre treatments, filtration, knitted antenna reflectors, medical devices, new fibres, nonwovens, spider silk, spinning and testing equipment. Also, the report includes information and analysis relating to the following innovative companies and other organisations: 3M, Acme Mills, Ahlstrom-Munksjö, Chomarat, Fraunhofer-Institut für Betriebsfestigkeit und Systemzuverlässigkeit LBF (Fraunhofer Institute for Structural Durability and System Reliability LBF—Fraunhofer LBF), JX Nippon ANCI Incorporated, Kelheim Fibres, Kraig Biocraft Laboratories, Lia Diagnostics, Low & Bonar, Massachusetts Institute of Technology (MIT), Meister & Cie (Meister), Nottingham Trent University (NTU), Oxeon, Oxford Space Systems, Quantum Materials, SGL Group, The Hohenstein Group and Toho Tenax.

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SUMMARY

CARBON FIBRES

SGL Group has developed a new high modulus carbon fibre called Sigrafil C T50-4.8/280

COMPOSITES

Chomarac has developed a new glass multiaxial non-crimp fabric and a new carbon unidirectional non-crimp fabric

Glass multiaxial NCF

Carbon unidirectional NCF

Oxeon has developed a new version of its TeXtreme spread tow fabric

Toho Tenax has developed a new prepreg which incorporates carbon fibres and carbon nanotubes

FABRICS

Acme Mills and Quantum Materials have collaborated in the development of a new fabric for aircraft seating applications

FIBRE TREATMENTS

Researchers at Fraunhofer LBF have developed a new method for preventing natural fibres from absorbing water

FILTRATION

3M has developed a filter which is compatible with Bluetooth technology

Ahlstrom-Munksjö has developed a new gas turbine filter called Trinitex Advance W3200

KNITTED ANTENNA REFLECTORS

Oxford Space Systems and researchers at Nottingham Trent University (NTU) are collaborating in the development of antenna reflectors made from knitted materials

MEDICAL DEVICES

Meister has used a new braiding technology to produce medical devices incorporating branched “eyelet” structures

NEW FIBRES

Kelheim Fibres has developed a new viscose fibre called Danufil QR

NONWOVENS

JX Nippon ANCI Incorporated has developed a version of its Milife material for use in filtration applications

Lia Diagnostics has developed a flushable pregnancy test which has been approved for sale at retail in the USA

Low & Bonar has developed a new carpet backing product for use in the manufacture of environmentally sustainable carpets

SPIDER SILK

Kraig Biocraft Laboratories has produced recombinant spider silk cocoons from a new type of hybrid transgenic silkworm

SPINNING

Researchers at Massachusetts Institute of Technology (MIT) have developed a new process for spinning ultra-fine polyethylene fibres

TESTING EQUIPMENT

The Hohenstein Group has developed a new version of its HOSYcan device for testing compression garments

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