

Technical textile markets: product developments and innovations, February 2020

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Abstracts

This report provides information on the latest developments in carbon fibres, carbon fibre components, composites, environmentally sustainable performance fibres, medical fabrics, nanofibres, performance fibres, protective materials and wearable technologies. The report includes information and analysis relating to the following innovative companies and other organisations: Aalto University, Ahlstrom-Munksjö, Composites Evolution, Drexel University, ELG Carbon Fibre, Honeywell, Magma Structures, Royal DSM (DSM), SGL Carbon, Solvay, Toray Industries (Toray), Universität Bayreuth (University of Bayreuth), the University of Birmingham, the University of British Columbia (UBC), the University of Huddersfield, and VTT Technical Research Centre of Finland.

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SUMMARY

CARBON FIBRES

Toray Industries (Toray) has developed carbon fibre with a continuous porous structure which could be used in support layers for gas separation membranes

CARBON FIBRE COMPONENTS

A consortium of UK-based companies and universities has developed a carbon fibre bogie

COMPOSITES

Composites Evolution has developed a range of flax reinforced prepregs for use in the manufacture of composite components for motorsport applications

Researchers at Aalto University and VTT Technical Research Centre of Finland have developed a bio-based composite material which could be used as an alternative to plastic

SGL Carbon and Solvay will commercialise composite materials which incorporate large tow intermediate modulus carbon fibre

ENVIRONMENTALLY SUSTAINABLE PERFORMANCE FIBRES

Royal DSM (DSM) will produce Dyneema fibre using bio-based feedstock

MEDICAL FABRICS

Ahlstrom-Munksjö has developed a new range of protective medical fabrics called TrustShield

NANOFIBRES

Researchers at the University of British Columbia (UBC) have developed nanofibres derived from cotton waste materials

PERFORMANCE FIBRES

Researchers at Universität Bayreuth (University of Bayreuth) have developed a synthetic fibre which has properties comparable with those of spider silk

PROTECTIVE MATERIALS

Honeywell has developed a new ballistic composite material for use in the manufacture of soft body armour

WEARABLE TECHNOLOGIES

Researchers at Drexel University have developed a method for coating cellulosic yarns with highly conductive MXene flakes

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