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Technical textile markets: product developments and innovations, October 2020

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Abstracts

This report provides information on the latest developments in antiviral materials, carbon fibres, environmentally sustainable materials, face masks, fibres, fibres for nonwovens, filter media, materials for three-dimensional (3D) printing, medical textiles and wearable technology. The report includes information and analysis relating to the following innovative companies and other organisations: Ahlstrom-Munksj?, Ascend Performance Materials (Ascend), Avgol, COMSATS University Islamabad, Empa, Fiberpartner, Google, Hexcel, Lenzing Group (Lenzing), Mann+Hummel, Mitsui Chemicals, PrimaLoft, Suominen, Technical Absorbents, Toray Industries (Toray) and University of Sheffield.

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SUMMARY

ANTIVIRAL MATERIALS

Ascend Performance Materials (Ascend) has developed new materials which have antiviral properties

CARBON FIBRES

Toray Industries (Toray) has developed a new carbon fibre and thermoplastic pellets which could be used in the manufacture of cost efficient composite components

ENVIRONMENTALLY SUSTAINABLE MATERIALS

A consortium of researchers based in Egypt has developed a method for extracting cellulosic fibres from date palms

FACE MASKS

Mitsui Chemicals has developed a reusable three-dimensionally (3D) printed face mask

FIBRES

Fiberpartner will expand the use of PrimaLoft's biodegradable polyester fibres in a number of technical applications
Technical Absorbents has developed a new grade of superabsorbent fibre for use in the manufacture of advanced wound dressings

FIBRES FOR NONWOVENS

Lenzing has developed two new types of lyocell fibre as part of its Veocel Beauty range of fibres for beauty applications

FILTER MEDIA

Mann+Hummel has developed a new air filter which can help to reduce the energy consumption of air conditioning and ventilation systems

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MATERIALS FOR THREE-DIMENSIONAL (3D) PRINTING

Hexcel has developed a new electrically conductive material for use in the manufacture of three-dimensionally (3D) printed aircraft components

MEDICAL TEXTILES

Ahlstrom-Munksj? has expanded its TrustShield range of medical protective fabrics
Researchers at Empa have developed new membranes which could be used in the manufacture of antibacterial wound dressings
Researchers at the University of Sheffield and COMSATS University Islamabad have collaborated in the development of new dressings which can accelerate the healing of chronic wounds and burns injuries

NONWOVENS

Ahlstrom-Munksj? has developed a range of nonwoven materials for use in the manufacture of face masks
Avgol has developed a range of environmentally sustainable nonwoven fabrics
Suominen has developed a nonwoven material for use in the manufacture of medical face masks

WEARABLE TECHNOLOGY

Google is working on the development of cords which could be used to control smart clothing products and other electronic devices

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