

Technical textile markets: product developments and innovations, March 2019

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Abstracts

This report provides information on the latest developments in composites, construction textiles, fibres, filter media, medical devices, medical textiles, nonwovens, performance fabrics, performance fibres, resins and wearable technology. The report includes information and analysis relating to the following innovative companies and other organisations: Ahlstrom-Munksjö, Arkema, Assystem Technologies, Avgol, Beaulieu Fibres International, Carrington, Chomarat, Cirimat, Cobratex, Compositadour, Honeywell, Lenzing, Lisa Aeronautics, M?cano ID, Nottingham Trent University (NTU), Porcher Sport, SABIC, Specific Polymers, Teijin Aramid, Toray Industries (Toray), the University of Exeter, The University of Manchester, and Westex by Milliken.

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SUMMARY

COMPOSITES

Several companies and research institutes in France are collaborating in the development of bamboo long fibre reinforced biocomposites for aerospace applications

CONSTRUCTION TEXTILES

Chomarat will use a new pilot production line to develop innovative scrim reinforcements for construction materials

FIBRES

Lenzing has developed a new lyocell fibre for use in the manufacture of flushable wipes

FILTER MEDIA

Ahlstrom-Munksjö has developed new filter media called Extia 1000 for use in industrial applications

MEDICAL DEVICES

Honeywell's Spectra Medical Grade (MG) fibre will be used in the manufacture of medical devices for minimally invasive procedures

MEDICAL TEXTILES

Ahlstrom-Munksjö has developed a new fabric for use in the manufacture of surgical gowns

NONWOVENS

Avgol has developed a new range of breathable nonwovens called enhanceFIT Breathe and a new nonwovens technology called comfortFIT Feel enhanceFIT Breathe comfortFIT Feel

Toray has developed an environmentally sustainable nonwoven material called

Ultrasuede BX

PERFORMANCE FABRICS

Carrington has developed a stretchable flame retardant (FR) fabric

Porcher Sport has developed a new ultra-lightweight fabric for use in the manufacture of avalanche airbags

Teijin Aramid and Westex by Milliken have collaborated in the development of a new flame resistant (FR) fabric called Westex Synergy Pro

PERFORMANCE FIBRES

Researchers at The University of Manchester have improved the strength properties of jute fibres through the use of graphene

Beaulieu Fibres International has developed a new bonding fibre for use in the manufacture of environmentally sustainable needlepunched carpets

RESINS

SABIC has developed a new type of polypropylene (PP) resin for use in the manufacture of fibres for breathable nonwoven fabrics

WEARABLE TECHNOLOGY

Researchers at the University of Exeter have developed new methods of manufacturing electronic fibres incorporating graphene

Development of capacitive sensors

Development of light emitting substrates

Researchers at Nottingham Trent University (NTU) have embedded miniature solar cells into yarns which could be used in textiles to power smart clothing

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