

Technical textile markets: product developments and innovations, September 2016

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Abstracts

This report provides information on the latest developments in air permeability testing, analytical methods, ballistic protection, composites, cryogenic tissues, membranes for gas separation, nonwovens, performance fabrics, self-repairing coatings for textiles, and wound dressings. The report includes information and analysis relating to the following innovative companies and other organisations: Avgol, AVS-SYS, Brain AG, Evonik Industries, First Armour, FOS Umwelt- und Filtertechnik Deutschland (FOS Group), the Hohenstein Institute, Kelheim Fibres, Mogul, Penn State, Technical Fibre Products (TFP), Teijin Limited, and the William-K?ster-Institut (William K?ster Institute) for Hygiene, Environment and Medicine.



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SUMMARY

AIR PERMEABILITY TESTING

Fos Umwelt- und Filtertechnik Deutschland (FOS Group): improvements to the TX15 device for testing the air permeability of textiles

ANALYTICAL METHODS

The Hohenstein Institute: new method for predicting how a textile will come into contact with

human skin

BALLISTIC PROTECTION

First Armour: panel for ballistic vests which incorporates Dyneema Force Multiplier Technology material

COMPOSITES

AVS-SYS: new ultra-lightweight carbon composite materials for aircraft

CRYOGENIC TISSUES

Technical Fibre Products (TFP): new type of cryogenic tissue

MEMBRANES FOR GAS SEPARATION

Evonik Industries: new membrane module for separating nitrogen gas from air

NONWOVENS

Avgol: new range of nonwoven products called Avgol Lux

Mogul: three new ranges of nonwoven materials

Mopet TCS fabrics

Meltblown polybutylene terephthalate (PBT) fabrics Thermoplastic polyurethane (TPU) nonwoven fabrics

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PERFORMANCE FABRICS

Teijin Limited: high visibility fabric made from aramid fibre

SELF-REPAIRING COATINGS FOR TEXTILES

Penn State: textile coating which can repair itself and neutralise harmful chemicals

WOUND DRESSINGS

Brain Ag, Kelheim Fibres and William-K?ster-Institut for Hygiene, Environment and Medicine: wound dressings made from alginate derived from bacteria



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