

safety and protection

performance fibres

intelligent textiles

sports and leisure

medical textiles

technical fabrics

construction

geotextiles

automoti

com

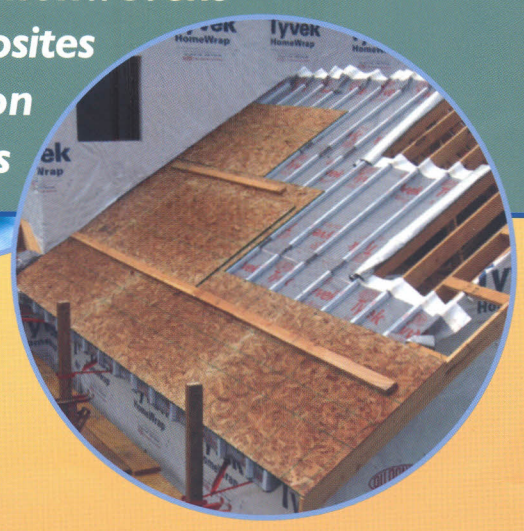
la

TECHNICAL *Textiles* international

OCTOBER 2012



- *China embraces technical textiles and nonwovens*
- *Sophisticated textiles needed for composites*
- *Nonwovens in building and construction*
- *Push to boost use of composites in cars*



aerospace

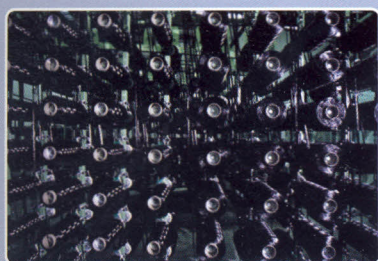
filtration

coating

IN

<http://www.technical-textiles.net>

TECHNICAL *Textiles* international



Carbon fibre is proving increasingly important for composites, as revealed by a series of reports in this issue: page 2; pages 9–14; pages 15–19.



As the industry's leaders head to Shanghai, China, for the latest edition of CINTe Textextil China (22–24 October 2012), their plans for the show reveal the importance of this regional market to them as well as their growing involvement in its maturation pages 21–27.



Chinese production of nonwovens for performance applications is growing rapidly, according to Vicky Sung, partly because of the availability of highly automated techniques pages 33–35 and pages 37–40.

ANet

<http://www.technical-textiles.net>

CONTENTS — OCTOBER 2012

COMPOSITES

- 9 Textile innovations help to drive development of composites
- 15 Composites demand increasingly sophisticated carbon textiles

TECHNICAL TEXTILES IN CHINA

- 21 Industry responds to evolving sophistication of China's markets
- 29 Slower growth in China still outstrips that in the rest of the world
- 33 Production of performance nonwovens is booming in China
- 37 How to make technology pay and protect the environment

BUILDING AND CONSTRUCTION

- 41 Effective seals for the building envelope rely on nonwovens

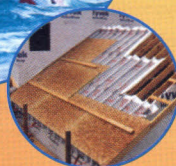
News and regular features

- 2 **Business and industry news**
 - Partners to develop carbon fibre-reinforced polyamide for mass production
 - European consortium to develop use of thermoplastic composites in cars
 - European centre for textiles innovations opens in France
- 6 **Applications and products**
 - Lightweight aramid to improve comfort of bullet-resistant vests
 - Polyester fleece made entirely from locally sourced recycled bottles
 - Surface treatment for polyolefins does not cause thermal degradation
- 46 **Diary of events**
- 48 **Index to advertisers**

Cover pictures:



John McCurry spoke to companies in North America to learn how textile-based innovations are helping them to develop new composites and exploit new markets, including the use by one of the world's leading sail makers, North Sails of Milford, Connecticut, USA, of a black fibre from Teijin Aramid pages 9–14.



Nonwovens supplied to the building and construction industry have much to offer in terms of energy efficiency and keeping the weather out, according to Adrian Wilson. pages 41–44.

Part of Technical-Textiles.Net, *Technical Textiles International* is published eight times a year by International Newsletters Ltd and is available online at: <http://www.technical-textiles.net>