

safety and protection  
performance fibres  
intelligent textiles  
sports and leisure  
medical textiles  
technical fabrics  
construction  
geotextiles  
automotive  
composites  
la

# TECHNICAL *Textiles* international

MAY/JUNE 2011



- *Environmental concerns drive more innovations*
- *Machinery builders head for Frankfurt*
- *Texprocess makes its entrance*
- *Carbon fibre in automobiles*



Visit us at *Techtextil*,  
Frankfurt, Germany,  
24–26 May 2011  
(Hall 3.1, Stand C47)

IN

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

aerospace  
filtration  
coating

# TECHNICAL *Textiles* international

CONTENTS — MAY/JUNE 2011

## TECHTEXTIL PREVIEW

- 2 Machinery builders to reveal latest developments at Techtexsil
- 18 Concern for the environment continues to drive innovation
- 35 From sportswear to car seats with Karl Mayer's raschel machines

## TEXPROCESS PREVIEW

- 39 Making up and processing technical textiles and flexible materials

## AUTOMOTIVE

- 47 The carbon fibre conundrum—where will it all come from?

## News and regular features

### 38 Business and industry news

- Production of carbon fibre precursor for SGL and BMW starts on time
- Greenfields selects Unisport as its partner for the Scandinavian market
- Trade fair and symposium for technical textiles and composites in transportation
- Rieter to split
- Spunbond price hike

### 54 Applications and products news

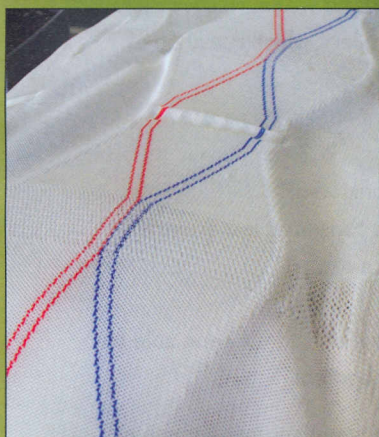
- High tensile strength and high opacity polypropylene nonwovens
- Softer polypropylene nonwovens

### 54 Forthcoming major events

### 56 Index to advertisers



Co-located with Techtexsil to encourage those involved in the making up of technical textiles to join their counterparts in conventional apparel, Texprocess will have plenty of interesting exhibits. Niki Tait selects some highlights pages 39–46.



Components made from warp-knitted spacer textiles by Karl Mayer; for the purpose of demonstrating the technology, coloured pile yarns are used to show the guiding of both pile guide bars when working the contours. Volkmar Bartels reveals more of what the German machinery builder will tell visitors to its stand at Techtexsil about this development pages 35–37.

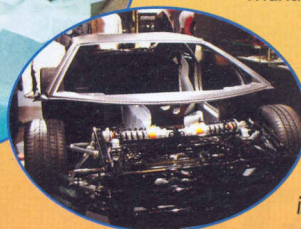
**Tnet**

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

## Cover pictures:



Techtexsil continues to be a home for innovation in the industry and, as the two selections of highlights of exhibitors' plans in this issue show: the desire to protect the environment still drives research and development among textile manufacturers (pages 18–34); machinery builders continue to develop products designed specifically for the manufacture of technical textiles (pages 2–18).



At JEC, Adrian Wilson found plenty of evidence that the move to replace steel with carbon fibre-reinforced composites in cars is a growing trend (pages 47–53).

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>