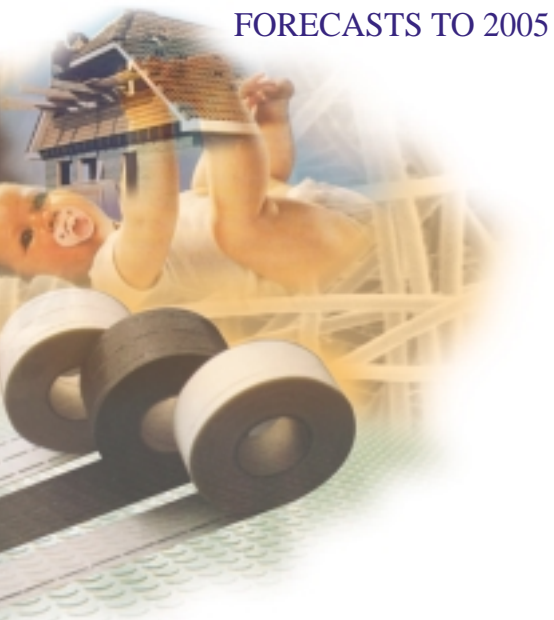


# World Markets for Nonwovens and Other Non-Spun Products

FORECASTS TO 2005



## Will nonwovens maintain its rapid growth?

Nonwovens production has shown remarkable growth in recent years. New materials and novel technologies are enabling manufacturers of nonwovens to penetrate new and existing markets with innovative products and solutions.

Opportunities for growth have attracted many new players into the market. Others have pooled resources in order to penetrate what is increasingly becoming a global marketplace. Can growth be maintained? Or will nonwovens markets in the Western world become saturated like those in the more traditional textile industry?

## Will nonwovens overtake traditional textiles?

In Europe the conventional spun yarn sector has stagnated while nonwovens production has continued to increase. Will nonwovens production overtake traditional spinning?

## Will nonwovens growth provide enough business for Western and Japanese fibre-makers?

As apparel markets decline under pressure from import competition, fibre makers in Japan, Europe and the USA have relied increasingly on nonwovens as an expanding market for their products. Will growth be enough to keep fibre makers in Japan and the West in business?

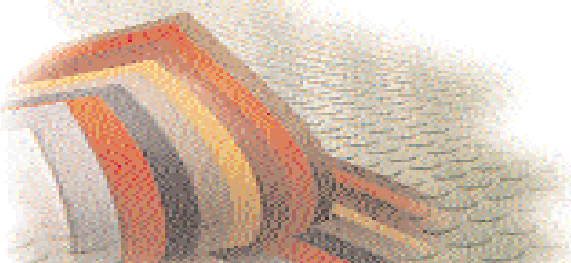
## And what of the prospects in Eastern Europe, Asia and Latin America?

Outside the main markets of North America, Western Europe and Japan, many potential growth markets remain untapped. Which regions offer the best prospects — Eastern Europe, Asia or Latin America? And which products are likely to see the fastest growth in these regions?

### World Markets for Nonwovens and Other Non-Spun Products: Forecasts to 2005,

published by Textiles Intelligence in association with the Brussels-based CIRFS, addresses these and other issues. The report:

- tracks the manufacture of nonwovens and other non-spun products from raw material to polymer to finished product;
- explains how products of different properties are being created to tailor them for different end uses in the marketplace;



- identifies the fastest growing markets for nonwovens and other non-spun products;
- examines different fibre types and their properties, and explains the suitability of each fibre type for specific market applications;
- assesses the relative competitiveness of nonwovens manufacturing in Western Europe and Asia, and identifies those countries which could become important production locations in the future;
- highlights the threat posed by cheap imports in the markets for nonwovens in Japan, Western Europe and North America;
- helps to identify areas for future investment.

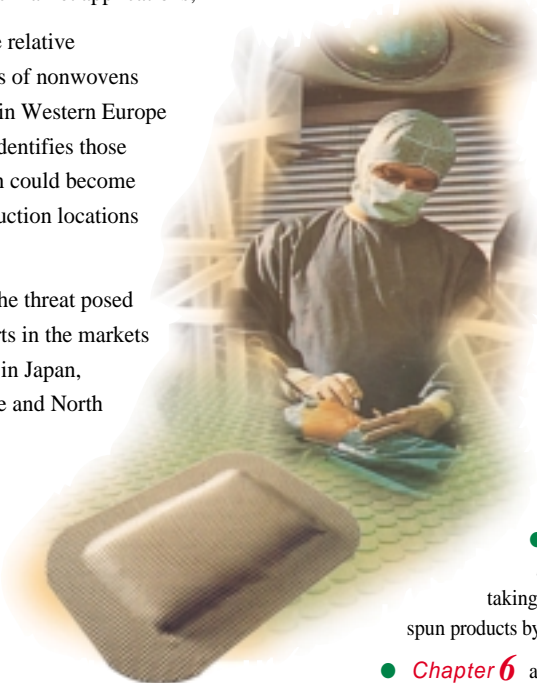
### World Markets for Nonwovens and Other

Non-Spun Products: Forecasts to 2005 will provide you with:

- comprehensive data on the global nonwovens and other non-spun products industry by country and by region;
- in-depth analysis of production costs in Asia and Europe for key nonwoven products;
- full descriptions of the various technologies used to manufacture nonwovens and other non-spun products, written for the non-specialist;
- forecasts to the year 2005 of nonwovens production and demand by product category for the world's main producing and consuming regions.

### THE REPORT IS DIVIDED INTO 11 CHAPTERS AND ONE APPENDIX

- **Chapter 1** provides an *executive summary*.
- **Chapter 2** identifies the *main types of nonwovens and other non-spun products*, focusing on fibre technology, web forming mechanisms, technologies associated with bonding and subsequent finishing, and end products.
- **Chapter 3** examines the *types of fibres* used in nonwoven and other non-spun products and, for each fibre type, highlights the *main end uses and markets*.
- **Chapter 4** focuses on the *manufacturing processes* used to make nonwovens and other non-spun products, describing methods of web formation, types of bonding and various finishing treatments.
- **Chapter 5** analyses the *technological changes* which are taking place in nonwovens and other non-spun products by end use, by process and by fibre type.
- **Chapter 6** assesses the *costs of manufacturing* nonwovens and other non-spun products, and compares the costs of producing specific products in Western Europe and in Asia.
- **Chapters 7-9** examine the *global market* for nonwovens and other non-spun products, focusing on Western Europe, the USA, Latin America, and Asia — including China and South East Asia.
- **Chapter 10** identifies *new market opportunities* in the global market for nonwovens and other non-spun products, predicting rapid development in the years up to 2005.
- **Chapter 11** looks at the *future* for global nonwovens and other non-spun products, and forecasts significant growth in a wide range of applications by the middle of the next decade.
- **Appendix 1** provides a useful *glossary* containing easy-to-understand definitions and descriptions of the terminology and abbreviations referred to in the report.



### VITAL INFORMATION

**World Markets for Nonwovens and Other Non-Spun Products: Forecasts to 2005** provides vital information about present and future trends for anyone with an involvement in the global fibres, textiles and clothing business — whether as importer/exporter, manufacturer, machinery maker, merchant, retailer, investment analyst or consultant.

Almost all of the information has been obtained from independent private research and the opinions of company representatives and is not available elsewhere.

### YOUR PANEL OF EXPERTS

This report is based on research conducted by an Unspun Working Group within the Brussels based organisation CIRFS (Comité International de la Rayonne et des Fibres Synthétiques). Dr Alex Krieger of CIRFS assumed responsibility for the study. The working group was chaired by Mr Reinhard Kampl of Lenzing. The other group members were: Dr Ciro Gargiulo of Montefibre, Italy; Mr Frank Gleeson of Wellman, Ireland; Mr Hartmann Huth of Hoechst, Germany; Mr Heinrich Jakob of Lenzing, Austria; Mr Tauno Oksanen of Säteri, Finland; Mr Markus Schwyn of Novalis Fibres, France; Ing Ugo Tinti of Montefibre, Italy; and Mr Calvin Woodings of Courtaulds, UK. The report was written by David Morris and produced by Deborah Tunney, assisted by Christopher Dee.

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