

Technical Textiles Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025-2034

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Abstracts

The Global Technical Textiles Market reached USD 205.4 billion in 2024 and is projected to exhibit a CAGR of 4.9% between 2025 and 2034. The rising demand for technical textiles across various industries, particularly medical applications, drives market growth. Factors such as advancements in textile engineering, increased infrastructure development, and the growing need for high-performance materials in automotive and industrial applications contribute to the sector's expansion.

Based on materials, the market is categorized into natural fibers, synthetic polymers, minerals, and others. The synthetic polymers segment accounted for USD 108.2 billion in 2024 and is anticipated to grow at a 5.3% CAGR over the forecast period. This category includes textiles derived from polyester, nylon, polypropylene, aramid, and acrylonitrile. Due to their superior durability, chemical resistance, and moisture protection, synthetic polymers play a crucial role in industrial and protective textile applications. Their lightweight and flexible properties make them indispensable for sectors requiring enhanced performance and resilience.

The industry is segmented into various application categories, including mobiltech, indutech, protech, buildtech, packtech, meditech, sportech, geotech, clothtech, and others. Mobiltech segment generated USD 31.8 billion in 2024 and is projected to grow at a 5.1% CAGR over the forecast period. The segment's dominance stems from the rising demand for high-performance materials within the automotive sector. Many Asian economies, including China, Japan, India, Korea, Thailand, and Taiwan, maintain strong automotive manufacturing industries, significantly boosting mobiltech's expansion. Increasing infrastructure investments, particularly in developing regions, fuel demand for technical textiles in construction and transportation applications.

The United States technical textiles market generated USD 43.1 billion in 2024. Government policies such as the Berry Amendment support domestic textile production by restricting non-domestic materials for defense-related applications. Additional initiatives like the Advanced Functional Fabrics of America (AFFOA) Project and the National Textile Center (NTC) Program contribute to research and development in advanced textiles. These programs drive innovation in industrial, healthcare, and military applications, reinforcing the country's leadership in technical textile manufacturing.

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market scope and definition
- 1.2 Base estimates and calculations
- 1.3 Forecast calculation
- 1.4 Data sources
 - 1.4.1 Primary
 - 1.4.2 Secondary
 - 1.4.2.1 Paid sources
 - 1.4.2.2 Public sources
- 1.5 Primary research and validation
 - 1.5.1 Primary sources
 - 1.5.2 Data mining sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Industry synopsis, 2021-2034

CHAPTER 3 INDUSTRY INSIGHTS

- 3.1 Industry ecosystem analysis
 - 3.1.1 Factor affecting the value chain
 - 3.1.2 Profit margin analysis
 - 3.1.3 Disruptions
 - 3.1.4 Future outlook
 - 3.1.5 Manufacturers
 - 3.1.6 Distributors
- 3.2 Supplier landscape
- 3.3 Profit margin analysis
- 3.4 Key news and initiatives
- 3.5 Regulatory landscape
- 3.6 Impact forces
 - 3.6.1 Growth drivers
 - 3.6.1.1 Rising demand for automotive and rail transport across Asia Pacific
 - 3.6.1.2 Increasing demand for medical disposables and PPE kits
 - 3.6.1.3 Positive outlook of construction industry in North America
 - 3.6.1.4 Rising product demand from packaging industry

- 3.6.2 Industry pitfalls and challenges
 - 3.6.2.1 Availability of product substitutes in the industry
 - 3.6.2.2 Fluctuating raw material prices
- 3.7 Growth potential analysis
- 3.8 Porter's analysis
- 3.9 PESTEL analysis

CHAPTER 4 COMPETITIVE LANDSCAPE, 2024

- 4.1 Introduction
- 4.2 Company market share analysis
- 4.3 Competitive positioning matrix
- 4.4 Strategic outlook matrix

CHAPTER 5 MARKET ESTIMATES AND FORECAST, BY MATERIAL, 2021 – 2034 (USD BILLION) (KILO TONS)

- 5.1 Key trends
- 5.2 Natural fibers
- 5.3 Synthetic polymers
- 5.4 Minerals
- 5.5 Others

CHAPTER 6 MARKET ESTIMATES AND FORECAST, BY TYPE, 2021 – 2034 (USD BILLION) (KILO TONS)

- 6.1 Key trends
- 6.2 Woven
- 6.3 Kitten
- 6.4 Non-woven
- 6.5 Others

CHAPTER 7 MARKET ESTIMATES AND FORECAST, BY APPLICATION, 2021 – 2034 (USD BILLION) (KILO TONS)

- 7.1 Key trends
- 7.2 Mobiltech
- 7.3 Indutech
- 7.4 Protech

- 7.5 Buildtech
- 7.6 Packtech
- 7.7 Meditech
- 7.8 Sportech
- 7.9 Geotech
- 7.10 Clothtech
- 7.11 Others

CHAPTER 8 MARKET ESTIMATES AND FORECAST, BY REGION, 2021 – 2034 (USD BILLION) (KILO TONS)

- 8.1 Key trends
- 8.2 North America
 - 8.2.1 U.S.
 - 8.2.2 Canada
- 8.3 Europe
 - 8.3.1 Germany
 - 8.3.2 UK
 - 8.3.3 France
 - 8.3.4 Spain
 - 8.3.5 Italy
 - 8.3.6 Russia
- 8.4 Asia Pacific
 - 8.4.1 China
 - 8.4.2 India
 - 8.4.3 Japan
 - 8.4.4 Australia
 - 8.4.5 South Korea
- 8.5 Latin America
 - 8.5.1 Brazil
 - 8.5.2 Mexico
- 8.6 Middle East and Africa
 - 8.6.1 Saudi Arabia
 - 8.6.2 South Africa
 - 8.6.3 UAE

CHAPTER 9 COMPANY PROFILES

- 9.1 Asahi Kasei

- 9.2 Baltex
- 9.3 Du Pont
- 9.4 Filspec
- 9.5 Freudenberg Performance Materials
- 9.6 Heathcoat Fabrics
- 9.7 Huntsman International
- 9.8 Khosla Profil
- 9.9 Milliken & Company
- 9.10 Mitsui Chemicals
- 9.11 Nikol Advance Materials
- 9.12 Nobletex
- 9.13 Srf
- 9.14 Toray Industries
- 9.15 Toyobo

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