

Technical Textiles - Company Evaluation Report, 2025

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Abstracts

The Technical Textiles Companies Quadrant is a comprehensive industry analysis that provides valuable insights into the global market for Technical Textiles. This quadrant offers a detailed evaluation of key market players, technological advancements, product innovations, and emerging trends shaping the industry. MarketsandMarkets 360 Quadrants evaluated over 100 companies, of which the Top 11 Technical Textiles Companies were categorized and recognized as quadrant leaders.

The technical textiles market represents one of the most dynamic segments within the global textile industry. It emphasizes advanced fiber technologies and functional materials engineered for specific performance outcomes. In contrast to conventional textiles focused on appearance or comfort, technical textiles are developed to deliver properties such as mechanical strength, durability, resistance to heat and chemicals, elasticity, and other specialized attributes suited for demanding industrial, commercial, and institutional applications. These materials are vital across sectors like automotive (MobilTech), construction (BuildTech), agriculture (AgroTech), healthcare (MedTech), industrial filtration (InduTech), defense (ProTech), and others. Notable characteristics include the use of high-performance synthetic fibers such as aramids, polyesters, and polypropylene; innovative production techniques like non-woven technologies, 3D weaving, coating, and lamination; and an increasing emphasis on sustainability and intelligent functionalities. With the influence of stringent regulations, expanding infrastructure projects, and growing demand for high-performance materials, the global technical textiles market is poised for consistent growth and continuous innovation.

Technical textiles are a specialized class of textile products designed mainly for their functional and technical properties, rather than for aesthetic or decorative purposes. Unlike standard textiles used in garments or interior decor, technical textiles are tailored to meet distinct industrial, scientific, or commercial demands. Depending on their application, these textiles are engineered to offer enhanced mechanical strength,

thermal and chemical resistance, long-term durability, filtration efficiency, or flame-retardant capabilities. They are applied in diverse industries such as automotive (seat belts, airbags), construction (geotextiles, roofing membranes), medical (surgical gowns, implants), agriculture (shade nets, crop covers), defense (bulletproof vests, uniforms), and sportswear (moisture-wicking fabrics, compression wear). Materials used include advanced synthetic fibers like aramids, carbon fiber, polyester, and polypropylene, as well as modified natural fibers for improved performance. These textiles are manufactured through specialized processes including non-woven, woven, knitted, and composite fabric technologies, often enhanced with nanotechnology, coatings, laminations, or functional finishes. As the demand for safer, more efficient, and sustainable solutions increases across industries, technical textiles are playing an increasingly crucial role in modern applications.

The 360 Quadrant maps the Technical Textiles companies based on criteria such as revenue, geographic presence, growth strategies, investments, and sales strategies for the market presence of the Technical Textiles quadrant. The top criteria for product footprint evaluation included By MATERIAL (Natural Fiber, Synthetic Polymer, Mineral, Metal, Regenerated Fiber, Other Materials), By PROCESS (Woven, Knitted, Non-Woven, Other Processes), and By APPLICATION (Mobiltech, Indutech, Sportech, Buildtech, Hometech, Clothtech, Meditech, Agrotech, Protech, Packtech, Oekotech, Geotech, Other Applications).

Key players in the Technical Textiles market include major global corporations and specialized innovators such as Asahi Kasei Corporation, Freudenberg Performance Materials, Berry Global Inc., DuPont, KCWW, 3M, Ahlstrom, TORAY INDUSTRIES, INC., Mitsui Chemicals, Inc., Milliken, and Toyobo Textile Co., Ltd. These companies are actively investing in research and development, forming strategic partnerships, and engaging in collaborative initiatives to drive innovation, expand their global footprint, and maintain a competitive edge in this rapidly evolving market.

Top 3 Companies

Asahi Kasei Corporation

Asahi Kasei Corporation stands out as a top player in the technical textiles market, excelling with its advanced material science capabilities and wide-ranging applications across automotive interiors, infrastructure, and electronics industries. Its operations span regions such as Asia Pacific, North America, South America, and Europe, offering a diverse technical textile product portfolio. The company's strategic mergers and collaborations significantly bolster its market position, with a focus on sustainable

growth and innovation.

DuPont

DuPont is renowned for its comprehensive portfolio and strong market presence globally. The company has expanded its technical textiles offering by acquiring technologies like Tex Tech's Core Matrix, enhancing product functionalities such as ballistic protection. With operations in 50 countries, DuPont's strategic initiatives ensure continuous growth, leveraging its technological leadership to maintain a competitive edge.

Freudenberg Performance Materials

Freudenberg Performance Materials leverages global production capabilities and non-woven technology expertise to serve diverse industrial applications, including automotive and healthcare. The company's focus on innovation and sustainable applications, such as gas diffusion layers for fuel cells, underscores its commitment to advancing its technical textile offerings. Operating more than 35 production sites globally, Freudenberg remains a pivotal player in shaping market dynamics.

Contents

1 INTRODUCTION

- 1.1 MARKET DEFINITION
- 1.1 INCLUSIONS AND EXCLUSIONS
- 1.2 STAKEHOLDERS

2 EXECUTIVE SUMMARY

3 MARKET OVERVIEW

- 3.1 INTRODUCTION
- 3.2 MARKET DYNAMICS
 - 3.2.1 DRIVERS
 - 3.2.1.1 Expanding key end-use industries
 - 3.2.1.2 Government-led support and initiatives for innovation, supporting infrastructure development, and promoting sustainability
 - 3.2.2 RESTRAINTS
 - 3.2.2.1 Requirement for high capital investment
 - 3.2.2.2 Lack of consumer awareness in emerging markets
 - 3.2.3 OPPORTUNITIES
 - 3.2.3.1 Increasing demand in medical & hygiene industry
 - 3.2.3.2 Rising demand for smart and e-textiles
 - 3.2.4 CHALLENGES
 - 3.2.4.1 Shortage of skilled labor
 - 3.2.4.2 Lack of specialized knowledge and complex manufacturing processes
- 3.3 PORTER'S FIVE FORCES ANALYSIS
 - 3.3.1 THREAT OF NEW ENTRANTS
 - 3.3.2 THREAT OF SUBSTITUTES
 - 3.3.3 BARGAINING POWER OF BUYERS
 - 3.3.4 BARGAINING POWER OF SUPPLIERS
 - 3.3.5 INTENSITY OF COMPETITIVE RIVALRY
- 3.4 IMPACT OF AI/GEN AI ON TECHNICAL TEXTILES MARKET
- 3.5 VALUE CHAIN ANALYSIS
- 3.6 ECOSYSTEM ANALYSIS
- 3.7 TECHNOLOGY ANALYSIS
 - 3.7.1 KEY TECHNOLOGIES
 - 3.7.1.1 Spinning technology

- 3.7.1.2 Weaving & knitting technology
- 3.7.2 COMPLEMENTARY TECHNOLOGIES
 - 3.7.2.1 Dyeing and printing technologies
 - 3.7.2.2 Testing and quality control technologies
- 3.7.3 ADJACENT TECHNOLOGIES
 - 3.7.3.1 Smart textile technology
- 3.8 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS
- 3.9 KEY CONFERENCES AND EVENTS, 2025–2026
- 3.10 PATENT ANALYSIS
 - 3.10.1 APPROACH
 - 3.10.2 DOCUMENT TYPE
 - 3.10.3 PATENT PUBLICATION TRENDS
 - 3.10.4 INSIGHTS
 - 3.10.5 LEGAL STATUS OF PATENTS
 - 3.10.6 JURISDICTION ANALYSIS
 - 3.10.7 TOP COMPANIES/APPLICANTS
 - 3.10.8 US: TOP 10 PATENT OWNERS IN LAST 11 YEARS

4 COMPETITIVE LANDSCAPE

- 4.1 OVERVIEW
- 4.2 KEY PLAYER STRATEGIES/RIGHT TO WIN
- 4.3 REVENUE ANALYSIS
- 4.4 MARKET SHARE ANALYSIS
- 4.5 COMPANY VALUATION AND FINANCIAL METRICS
- 4.6 BRAND/PRODUCT COMPARISON ANALYSIS
- 4.7 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024
 - 4.7.1 STARS
 - 4.7.2 EMERGING LEADERS
 - 4.7.3 PERVASIVE PLAYERS
 - 4.7.4 PARTICIPANTS
 - 4.7.5 COMPANY FOOTPRINT: KEY PLAYERS, 2024
 - 4.7.5.1 Company footprint
 - 4.7.5.2 Region footprint
 - 4.7.5.3 Material footprint
 - 4.7.5.4 Process footprint
 - 4.7.5.5 Application footprint
- 4.8 COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024
 - 4.8.1 PROGRESSIVE COMPANIES

4.8.2 RESPONSIVE COMPANIES

4.8.3 DYNAMIC COMPANIES

4.8.4 STARTING BLOCKS

4.8.5 COMPETITIVE BENCHMARKING: KEY STARTUPS/SMES, 2024

4.8.5.1 Detailed list of key startups/SMEs

4.8.5.2 Competitive benchmarking of key startups/SMEs

4.9 COMPETITIVE SCENARIO

4.9.1 PRODUCT LAUNCHES

4.9.2 DEALS

4.9.3 OTHERS

5 COMPANY PROFILES

5.1 KEY PLAYERS

5.1.1 ASAHI KASEI CORPORATION

5.1.1.1 Business overview

5.1.1.2 Products/Solutions/Services offered

5.1.1.3 Recent developments

5.1.1.3.1 Product launches

5.1.1.3.2 Deals

5.1.1.4 MnM view

5.1.1.4.1 Key strengths/Right to win

5.1.1.4.2 Strategic choices

5.1.1.4.3 Weaknesses/Competitive threats

5.1.2 FREUDENBERG PERFORMANCE MATERIALS

5.1.2.1 Business overview

5.1.2.2 Products/Solutions/Services offered

5.1.2.3 Recent developments

5.1.2.3.1 Product launches

5.1.2.3.2 Expansions

5.1.2.4 MnM view

5.1.2.4.1 Key strengths/Right to win

5.1.2.4.2 Strategic choices

5.1.2.4.3 Weaknesses/Competitive threats

5.1.3 BERRY GLOBAL INC.

5.1.3.1 Business overview

5.1.3.2 Products/Solutions/Services offered

5.1.3.3 Recent developments

5.1.3.3.1 Deals

- 5.1.3.4 MnM view
 - 5.1.3.4.1 Key strengths/Right to win
 - 5.1.3.4.2 Strategic choices
 - 5.1.3.4.3 Weaknesses/Competitive threats
- 5.1.4 DUPONT
 - 5.1.4.1 Business overview
 - 5.1.4.2 Products/Solutions/Services offered
 - 5.1.4.3 Recent developments
 - 5.1.4.3.1 Expansions
 - 5.1.4.4 MnM view
 - 5.1.4.4.1 Key strengths/Right to win
 - 5.1.4.4.2 Strategic choices
 - 5.1.4.4.3 Weaknesses/Competitive threats
- 5.1.5 KCWW
 - 5.1.5.1 Business overview
 - 5.1.5.2 Products/Solutions/Services offered
 - 5.1.5.3 Recent developments
 - 5.1.5.3.1 Product launches
 - 5.1.5.4 MnM view
 - 5.1.5.4.1 Key strengths/Right to win
 - 5.1.5.4.2 Strategic choices
 - 5.1.5.4.3 Weaknesses/Competitive threats
- 5.1.6 3M
 - 5.1.6.1 Business overview
 - 5.1.6.2 Products/Solutions/Services offered
 - 5.1.6.3 MnM view
- 5.1.7 AHLSTROM
 - 5.1.7.1 Business overview
 - 5.1.7.2 Products/Solutions/Services offered
 - 5.1.7.3 Recent developments
 - 5.1.7.3.1 Product launches
 - 5.1.7.3.2 Deals
 - 5.1.7.4 MnM view
- 5.1.8 TORAY INDUSTRIES, INC.
 - 5.1.8.1 Business overview
 - 5.1.8.2 Products/Solutions/Services offered
 - 5.1.8.3 Recent developments
 - 5.1.8.3.1 Product launches
 - 5.1.8.4 MnM view

5.1.9 MITSUI CHEMICALS, INC.

5.1.9.1 Business overview

5.1.9.2 Products/Solutions/Services offered

5.1.9.3 MnM view

5.1.10 MILLIKEN

5.1.10.1 Business overview

5.1.10.2 Products/Solutions/Services offered

5.1.10.3 Recent developments

5.1.10.3.1 Expansions

5.1.10.4 MnM view

5.1.11 TOYOBO TEXTILE CO., LTD.

5.1.11.1 Business overview

5.1.11.2 Products/Solutions/Services offered

5.1.11.3 MnM view

5.2 OTHER PLAYERS

5.2.1 SRF LIMITED

5.2.2 TENCATE PROTECTIVE

5.2.3 W.BALL & SON LIMITED (BALTEX)

5.2.4 HUESKER

5.2.5 SKAPS INDUSTRIES

5.2.6 DELCOTEX

5.2.7 OFFICINE MACCAFERRI SPA

5.2.8 ARROW TECHNICAL TEXTILES PVT. LTD.

5.2.9 JOHNS MANVILLE

5.2.10 DUVALTEX

5.2.11 HEATHCOAT FABRICS LIMITED

5.2.12 KHOSLA PROFIL PVT. LTD.

5.2.13 NIKOL ADVANCE MATERIALS PVT. LTD

5.2.14 NOBLETEX INDUSTRIES LTD.

6 APPENDIX

6.1 RESEARCH METHODOLOGY

6.1.1 RESEARCH DATA

6.1.1.1 Secondary data

6.1.1.2 Primary data

6.1.2 RESEARCH ASSUMPTIONS

6.1.3 RISK ASSESSMENT

6.1.4 RESEARCH LIMITATIONS

6.2 COMPANY EVALUATION MATRIX: METHODOLOGY

6.3 AUTHOR DETAILS

List Of Tables

LIST OF TABLES

TABLE 1 TECHNICAL TEXTILES MARKET: INCLUSIONS AND EXCLUSIONS

TABLE 2 TECHNICAL TEXTILES MARKET: PORTER'S FIVE FORCES ANALYSIS

TABLE 3 ROLES OF COMPANIES IN TECHNICAL TEXTILES ECOSYSTEM

TABLE 4 TECHNICAL TEXTILES MARKET: LIST OF KEY CONFERENCES AND EVENTS, 2025–2026

TABLE 5 TOTAL PATENT COUNT, 2014–2024

TABLE 6 US: TOP 10 PATENT OWNERS IN LAST 11 YEARS

TABLE 7 TECHNICAL TEXTILES MARKET: OVERVIEW OF KEY STRATEGIES ADOPTED BY MAJOR PLAYERS, JANUARY 2021–JUNE 2025

TABLE 8 TECHNICAL TEXTILES MARKET: DEGREE OF COMPETITION, 2024

TABLE 9 TECHNICAL TEXTILES MARKET: REGION FOOTPRINT

TABLE 10 TECHNICAL TEXTILES MARKET: MATERIAL FOOTPRINT

TABLE 11 TECHNICAL TEXTILES MARKET: PROCESS FOOTPRINT

TABLE 12 TECHNICAL TEXTILES MARKET: APPLICATION FOOTPRINT

TABLE 13 TECHNICAL TEXTILES MARKET: DETAILED LIST OF KEY STARTUPS/SMES

TABLE 14 TECHNICAL TEXTILES MARKET: COMPETITIVE BENCHMARKING OF KEY STARTUPS/SMES

TABLE 15 TECHNICAL TEXTILES MARKET: PRODUCT LAUNCHES, JANUARY 2021–JUNE 2025

TABLE 16 TECHNICAL TEXTILES MARKET: DEALS, JANUARY 2021–JUNE 2025

TABLE 17 TECHNICAL TEXTILES MARKET: OTHERS, JANUARY 2021–JUNE 2025

TABLE 18 ASAHI KASEI CORPORATION: COMPANY OVERVIEW

TABLE 19 ASAHI KASEI CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 20 ASAHI KASEI CORPORATION: PRODUCT LAUNCHES

TABLE 21 ASAHI KASEI CORPORATION: DEALS

TABLE 22 FREUDENBERG PERFORMANCE MATERIALS: COMPANY OVERVIEW

TABLE 23 FREUDENBERG PERFORMANCE MATERIALS: PRODUCTS/SOLUTIONS/ SERVICES OFFERED

TABLE 24 FREUDENBERG PERFORMANCE MATERIALS: PRODUCT LAUNCHES

TABLE 25 FREUDENBERG PERFORMANCE MATERIALS: EXPANSIONS

TABLE 26 BERRY GLOBAL INC.: COMPANY OVERVIEW

TABLE 27 BERRY GLOBAL INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 28 BERRY GLOBAL INC.: DEALS

TABLE 29 DUPONT: COMPANY OVERVIEW

TABLE 30 DUPONT: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 31 DUPONT: EXPANSIONS

TABLE 32 KCWW: COMPANY OVERVIEW

TABLE 33 KCWW: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 34 KCWW: PRODUCT LAUNCHES

TABLE 35 3M: COMPANY OVERVIEW

TABLE 36 3M: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 37 AHLSTROM: COMPANY OVERVIEW

TABLE 38 AHLSTRSOM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 39 AHLSTROM: PRODUCT LAUNCHES

TABLE 40 AHLSTROM: DEALS

TABLE 41 TORAY INDUSTRIES, INC.: COMPANY OVERVIEW

TABLE 42 TORAY INDUSTRIES, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 43 TORAY INDUSTRIES, INC.: PRODUCT LAUNCHES

TABLE 44 MITSUI CHEMICALS, INC.: COMPANY OVERVIEW

TABLE 45 MITSUI CHEMICALS, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 46 MILLIKEN: COMPANY OVERVIEW

TABLE 47 MILLIKEN: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 48 MILLIKEN: EXPANSIONS

TABLE 49 TOYOBO TEXTILE CO., LTD.: COMPANY OVERVIEW

TABLE 50 TOYOBO TEXTILE CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 51 SRF LIMITED: COMPANY OVERVIEW

TABLE 52 TENCATE PROTECTIVE: COMPANY OVERVIEW

TABLE 53 W.BALL & SON LIMITED: COMPANY OVERVIEW

TABLE 54 HUESKER: COMPANY OVERVIEW

TABLE 55 SKAPS INDUSTRIES: COMPANY OVERVIEW

TABLE 56 DELCOTEX: COMPANY OVERVIEW

TABLE 57 OFFICINE MACCAFERRI SPA: COMPANY OVERVIEW

TABLE 58 ARROW TECHNICAL TEXTILES PVT. LTD.: COMPANY OVERVIEW

TABLE 59 JOHNS MANVILLE: COMPANY OVERVIEW

TABLE 60 DUVALTEX: COMPANY OVERVIEW

TABLE 61 HEATHCOAT FABRICS LIMITED: COMPANY OVERVIEW

TABLE 62 KHOSLA PROFIL PVT. LTD.: COMPANY OVERVIEW

TABLE 63 NIKOL ADVANCE MATERIALS PVT. LTD: COMPANY OVERVIEW

TABLE 64 NOBLETEX INDUSTRIES LTD.: COMPANY OVERVIEW

List Of Figures

LIST OF FIGURES

FIGURE 1 SYNTHETIC POLYMER SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2030

FIGURE 2 WOVEN SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2030

FIGURE 3 MOBILTECH SEGMENT TO ACCOUNT FOR LARGEST MARKET SHARE IN 2030

FIGURE 4 ASIA PACIFIC TO REGISTER HIGHEST CAGR DURING FORECAST PERIOD

FIGURE 5 TECHNICAL TEXTILES MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

FIGURE 6 TECHNICAL TEXTILES MARKET: PORTER'S FIVE FORCES ANALYSIS

FIGURE 7 TECHNICAL TEXTILES MARKET: VALUE CHAIN ANALYSIS

FIGURE 8 TECHNICAL TEXTILES MARKET: ECOSYSTEM ANALYSIS

FIGURE 9 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 10 TOTAL NUMBER OF PATENTS, 2014–2024

FIGURE 11 NUMBER OF PATENTS YEAR-WISE, 2014–2024

FIGURE 12 PATENT ANALYSIS, BY LEGAL STATUS, 2014–2024

FIGURE 13 TOP JURISDICTION, BY DOCUMENT, 2014–2024

FIGURE 14 TOP 10 COMPANIES/APPLICANTS WITH HIGHEST NUMBER OF PATENTS, 2014–2024

FIGURE 15 TECHNICAL TEXTILES MARKET: REVENUE ANALYSIS OF KEY COMPANIES, 2020–2024 (USD BILLION)

FIGURE 16 TECHNICAL TEXTILES MARKET SHARE ANALYSIS, 2024

FIGURE 17 TECHNICAL TEXTILES MARKET: COMPANY VALUATION OF KEY COMPANIES, 2024 (USD BILLION)

FIGURE 18 TECHNICAL TEXTILES MARKET: FINANCIAL METRICS OF KEY COMPANIES, 2024

FIGURE 19 TECHNICAL TEXTILES MARKET: BRAND/PRODUCT COMPARISON

FIGURE 20 TECHNICAL TEXTILES MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2024

FIGURE 21 TECHNICAL TEXTILES MARKET: COMPANY FOOTPRINT

FIGURE 22 TECHNICAL TEXTILES MARKET: COMPANY EVALUATION MATRIX (STARTUPS/SMES), 2024

FIGURE 23 ASAHI KASEI CORPORATION: COMPANY SNAPSHOT

FIGURE 24 FREUDENBERG PERFORMANCE MATERIALS: COMPANY SNAPSHOT

FIGURE 25 BERRY GLOBAL INC.: COMPANY SNAPSHOT

FIGURE 26 DUPONT: COMPANY SNAPSHOT

FIGURE 27 KCWW: COMPANY SNAPSHOT

FIGURE 28 3M: COMPANY SNAPSHOT

FIGURE 29 AHLSTROM: COMPANY SNAPSHOT

FIGURE 30 TORAY INDUSTRIES, INC.: COMPANY SNAPSHOT

FIGURE 31 MITSUI CHEMICALS, INC.: COMPANY SNAPSHOT

FIGURE 32 TOYOBO TEXTILE CO., LTD.: COMPANY SNAPSHOT

FIGURE 33 TECHNICAL TEXTILES MARKET: RESEARCH DESIGN

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