

Fire-resistant Fabrics Market by Type (Treated and Inherent), Application (Apparel and Non-apparel), End-use Industry (Industrial, Defense & Public Safety Services, and Transport), Region - Global Forecast to 2030

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Report description:

The global fire-resistant fabrics market size is projected to reach USD 5.65 billion by 2030 from USD 3.75 billion in 2024, at a CAGR of 7.24%. In high-risk industries, fire-resistant fabrics are essential for protecting workers from heat, flame, and thermal risks. Fire-resistant fabrics are designed to resist fire initiation, slow the progress of flames, and mitigate the severity of burns, and thus play a valuable role in manufacturing, oil & gas, defense & public safety services, and transport. As regulatory standards become more stringent and workplace safety awareness spreads across the world, organizations are increasingly looking to deploy certified high-performance fire-resistant fabrics to ensure operational safety and compliance.

"Treated fire-resistant fabrics segment is projected to be the second-fastest growing segment of the fire-resistant fabrics market, in terms of value, during the forecast period."

During the forecast period, the treated fire-resistant fabrics segment is expected to be the second-fastest growing segment of the global fire-resistant fabrics market by value. Treated fabrics, which are made chemically fire-resistant and non-ignitable, are mainly expanding their applications due to their cost-effectiveness and versatility. Industries that demand high-performance, cost-effective safety solutions, such as oil & gas, construction, and defense & public safety services, are progressively adopting treated fire-resistant fabrics. In addition, improvements in treatment technologies have enhanced the comfort and durability of these fabrics, further establishing their market position across a broad range of sectors.

"Non-apparel application accounted for the second-largest share of the fire-resistant fabrics market, in terms of value, in 2024." In 2024, non-apparel application was the second-largest segment of the global fire-resistant fabrics market in terms of value. This dominance is driven by the rising demand in applications like transport and industrial insulation, especially in aerospace,

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automotive, and construction, where fire protection is a crucial factor. Fire-resistant fabrics are being widely applied in curtains, upholstery, wall coverings, and thermal insulation layers to achieve high fire safety standards and improve structural safety. This expansion of non-apparel applications of fire-resistant fabrics reinforces the market's development and increased focus on fire protection throughout industries.

"Transport industry to be the second-fastest-growing segment of the global fire-resistant fabrics market, in terms of value, during the forecast period."

The transport industry is expected to be the second-fastest growing end-use segment in the global fire-resistant fabrics market in terms of value during the forecast period. This is mainly due to rising safety norms and strict fire protection policies in automotive, aerospace, railways, and marine transport. With manufacturers focused on passenger and employee safety, the demand for fire-resistant materials used in seat covers, insulation, interior panels, and protective equipment is growing. Further, increasing investment in the public transport infrastructure and the rising usage of electric vehicles, where thermal management is critical, are likely to fuel the use of fire-resistant fabrics in the transport industry.

"North America was the second largest region in the fire-resistant fabrics market, in terms of value, in 2024."

North America was the second-largest market in the fire-resistant fabrics market, by value, in 2024. This dominance is led by strict workplace safety regulations, particularly in high-risk industries like oil & gas, utilities, defense & public safety services, and transport. The region's established industrial base and high enforcement of regulatory body standards have fueled the demand for high-performance protective fabrics. In addition, continuous infrastructure development and increased awareness of employee safety have supported the use of fire-resistant fabrics. The presence of major producers and advanced R&D facilities available in the region further strengthens its market position in the global fire-resistance fabrics market.

-□By Company Type: Tier 1 - 55%, Tier 2 - 25%, and Tier 3 - 20%

-□By Designation: Directors - 50%, Managers - 30%, and Others - 20%

-□By Region: North America - 40%, Europe - 35%, Asia Pacific - 20%, and the Rest of the World - 5%

The key players profiled in the report include DuPont de Nemours, Inc. (US), Teijin Limited (Japan), Indorama Ventures Public Company Limited (Thailand), Syensqo SA/NV (Belgium), TenCate Protective Fabrics (Netherlands), Lenzing AG (Austria), PBI Performance Products, Inc. (US), Kaneka Corporation (Japan), Gun Ei Chemical Industry Co., Ltd. (Japan), W. L. Gore & Associates, Inc. (US), and Milliken & Company (US).

Research Coverage

This report segments the market for fire-resistant fabrics based on type, application, end-use industry, and region, and provides estimations of value (USD million) for the overall market size across various regions. A detailed analysis of key industry players has been conducted to provide insights into their business overviews, services, and key strategies associated with the market for fire-resistant fabrics.

Reasons to Buy this Report

This research report is focused on various levels of analysis-industry analysis (industry trends), market share analysis of top players, and company profiles, which together provide an overall view of the competitive landscape, emerging and high-growth segments of the fire-resistant fabrics market, high-growth regions, and market drivers, restraints, and opportunities.

The report provides insights into the following points:

-□Market Penetration: Comprehensive information on the fire-resistant fabrics offered by top players in the global market

-□Analysis of key drivers (stringent workplace safety regulations in developed countries, increasing use of fire-resistant fabrics in the oil & gas industry, and increasing urbanization & infrastructure development), restraints (high cost of production and huge investment in R&D and lack of safety regulations in developing regions), opportunities (technological innovations in product development), and challenges (fluctuating raw material costs) influencing the growth of the fire-resistant fabrics market.

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-□Product Development/Innovation: Detailed insights on upcoming technologies, research & development activities, and new product & service launches in the fire-resistant fabrics market.

-□Market Development: Comprehensive information about lucrative emerging markets-the report analyzes the markets for fire-resistant fabrics across regions.

-□Market Diversification: Exhaustive information about new products, untapped regions, and recent developments in the global fire-resistant fabrics market.

-□Competitive Assessment: In-depth assessment of market shares, strategies, products, and manufacturing capabilities of leading players in the fire-resistant fabrics market.

Table of Contents:

| | | |
|---------|---|----|
| 1 | INTRODUCTION | 27 |
| 1.1 | STUDY OBJECTIVES | 27 |
| 1.2 | MARKET DEFINITION | 27 |
| 1.3 | STUDY SCOPE | 28 |
| 1.3.1 | MARKETS COVERED AND REGIONAL SCOPE | 28 |
| 1.3.2 | INCLUSIONS AND EXCLUSIONS OF STUDY | 29 |
| 1.3.3 | MARKET DEFINITION AND INCLUSIONS, BY TYPE | 29 |
| 1.3.4 | MARKET DEFINITION AND INCLUSIONS, BY APPLICATION | 29 |
| 1.3.5 | MARKET DEFINITION AND INCLUSIONS, BY END-USE INDUSTRY | 29 |
| 1.3.6 | YEARS CONSIDERED | 30 |
| 1.3.7 | CURRENCY CONSIDERED | 30 |
| 1.3.8 | UNIT CONSIDERED | 30 |
| 1.4 | STAKEHOLDERS | 30 |
| 1.5 | SUMMARY OF CHANGES | 31 |
| 2 | RESEARCH METHODOLOGY | 32 |
| 2.1 | RESEARCH DATA | 32 |
| 2.1.1 | SECONDARY DATA | 33 |
| 2.1.2 | PRIMARY DATA | 33 |
| 2.1.2.1 | Key primary participants | 33 |
| 2.1.2.2 | Key industry insights | 34 |
| 2.1.2.3 | Breakdown of primary interviews | 34 |
| 2.2 | MARKET SIZE ESTIMATION | 35 |
| 2.2.1 | BOTTOM-UP APPROACH | 35 |
| 2.2.2 | TOP-DOWN APPROACH | 37 |
| 2.3 | DATA TRIANGULATION | 37 |
| 2.4 | GROWTH FORECAST | 39 |
| 2.4.1 | SUPPLY-SIDE ANALYSIS | 39 |
| 2.4.2 | DEMAND-SIDE ANALYSIS | 40 |
| 2.5 | ASSUMPTIONS | 41 |
| 2.6 | LIMITATIONS | 41 |
| 2.7 | RISK ASSESSMENT | 41 |
| 3 | EXECUTIVE SUMMARY | 42 |
| 4 | PREMIUM INSIGHTS | 46 |
| 4.1 | ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN FIRE-RESISTANT FABRICS MARKET | 46 |

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| | | |
|---------|--|----|
| 4.2 | FIRE-RESISTANT FABRICS MARKET, BY REGION | 46 |
| 4.3 | ASIA PACIFIC: FIRE-RESISTANT FABRICS MARKET, BY TYPE AND COUNTRY | 47 |
| 4.4 | REGIONAL ANALYSIS: FIRE-RESISTANT FABRICS MARKET, BY APPLICATION | 47 |
| 4.5 | REGIONAL ANALYSIS: FIRE-RESISTANT FABRICS MARKET, BY END-USE INDUSTRY | 48 |
| 4.6 | FIRE-RESISTANT FABRICS MARKET ATTRACTIVENESS | 48 |
| 5 | MARKET OVERVIEW | 49 |
| 5.1 | INTRODUCTION | 49 |
| 5.2 | MARKET DYNAMICS | 49 |
| 5.2.1 | DRIVERS | 50 |
| 5.2.1.1 | Stringent workplace safety regulations in developed countries | 50 |
| 5.2.1.2 | Increasing use of fire-resistant fabrics in oil & gas industry | 50 |
| 5.2.1.3 | Increasing urbanization & infrastructure development | 51 |
| 5.2.2 | RESTRAINTS | 52 |
| 5.2.2.1 | High cost of production and huge investment in R&D | 52 |
| 5.2.2.2 | Lack of safety regulations in developing regions | 52 |
| 5.2.3 | OPPORTUNITIES | 52 |
| 5.2.3.1 | Technological innovations in product development | 52 |
| 5.2.4 | CHALLENGES | 53 |
| 5.2.4.1 | Fluctuating raw material costs | 53 |
| 5.3 | PORTER'S FIVE FORCES ANALYSIS | 54 |
| 5.3.1 | THREAT OF SUBSTITUTES | 55 |
| 5.3.2 | THREAT OF NEW ENTRANTS | 55 |
| 5.3.3 | BARGAINING POWER OF SUPPLIERS | 55 |
| 5.3.4 | BARGAINING POWER OF BUYERS | 55 |
| 5.3.5 | INTENSITY OF COMPETITIVE RIVALRY | 56 |
| 5.4 | KEY STAKEHOLDERS AND BUYING CRITERIA | 56 |
| 5.4.1 | KEY STAKEHOLDERS IN BUYING PROCESS | 56 |
| 5.4.2 | BUYING CRITERIA | 57 |
| 5.5 | MACROECONOMIC INDICATORS | 58 |
| 5.5.1 | GDP TRENDS AND FORECAST | 58 |
| 6 | INDUSTRY TRENDS | 60 |
| 6.1 | SUPPLY CHAIN ANALYSIS | 60 |
| 6.1.1 | RAW MATERIAL SUPPLIERS | 61 |
| 6.1.2 | MANUFACTURERS | 61 |
| 6.1.3 | DISTRIBUTORS | 61 |
| 6.1.4 | END-USE INDUSTRIES | 61 |
| 6.2 | PRICING ANALYSIS | 62 |
| 6.2.1 | AVERAGE SELLING PRICE OF FIRE-RESISTANT FABRICS OFFERED BY KEY PLAYERS | 62 |
| 6.2.2 | AVERAGE SELLING PRICE TREND OF FIRE-RESISTANT FABRICS, BY REGION | 63 |
| 6.3 | TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS | 64 |
| 6.4 | ECOSYSTEM ANALYSIS | 65 |
| 6.5 | TECHNOLOGY ANALYSIS | 67 |
| 6.5.1 | KEY TECHNOLOGIES | 67 |
| 6.5.1.1 | Inherent flame-resistant fibers | 67 |
| 6.5.1.2 | Treated flame-retardant fabrics | 67 |
| 6.5.2 | COMPLIMENTARY TECHNOLOGIES | 67 |

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- 6.5.2.1□Radiant barrier technology□67
- 6.6□CASE STUDY ANALYSIS□68
- 6.6.1□CASE STUDY ON MCR SAFETY□68
- 6.6.2□CASE STUDY ON G.D. INTERNATIONAL□68
- 6.7□TRADE ANALYSIS□69
- 6.7.1□IMPORT SCENARIO (HS CODE 590320)□69
- 6.7.2□EXPORT SCENARIO (HS CODE 590320)□70
- 6.8□REGULATORY LANDSCAPE□71
- 6.8.1□REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS□71
- 6.8.2□REGULATORY FRAMEWORK□74
- 6.8.2.1□ISO 11612: Protective clothing - Clothing to protect against heat and flame - Minimum performance requirements□74
- 6.8.2.2□ISO 15025: Protective clothing - Protection against flame - Method of test for limited flame spread□75
- 6.9□KEY CONFERENCES AND EVENTS□75
- 6.10□INVESTMENT AND FUNDING SCENARIO□76
- 6.11□PATENT ANALYSIS□76
- 6.11.1□APPROACH□76
- 6.11.2□DOCUMENT TYPES□77
- 6.11.3□TOP APPLICANTS□79
- 6.11.4□JURISDICTION ANALYSIS□81
- 6.12□IMPACT OF 2025 US TARIFF - OVERVIEW□82
- 6.12.1□INTRODUCTION□82
- 6.12.2□KEY TARIFF RATES□83
- 6.12.3□PRICE IMPACT ANALYSIS□83
- 6.12.4□IMPACT ON COUNTRY/REGION□84
- 6.12.4.1□US□84
- 6.12.4.2□Europe□84
- 6.12.4.3□Asia Pacific□85
- 6.12.5□IMPACT ON END-USE INDUSTRIES□85
- 6.13□IMPACT OF AI/GEN AI ON FIRE-RESISTANT FABRICS MARKET□86
- 7□FIRE-RESISTANT FABRICS MARKET, BY TYPE□88
- 7.1□INTRODUCTION□89
- 7.2□TREATED□91
- 7.2.1□COST-EFFECTIVENESS OF TREATED FIRE-RESISTANT FABRICS TO DRIVE DEMAND□91
- 7.2.2□FIRE-RESISTANT COTTON□91
- 7.2.3□FIRE-RESISTANT VISCOSE□91
- 7.2.4□FIRE-RESISTANT POLYESTER□91
- 7.2.5□FIRE-RESISTANT NYLON 6□91
- 7.3□INHERENT□93
- 7.3.1□INCREASING PREFERENCE FOR DURABLE AND PERMANENT FIRE-RESISTANT SOLUTIONS TO DRIVE MARKET□93
- 7.3.2□ARAMID□93
- 7.3.3□POLYBENZIMIDAZOLE□93
- 7.3.4□MODACRYLIC□94
- 7.3.5□POLYAMIDE□94
- 7.3.6□POLYIMIDE□94
- 8□FIRE-RESISTANT FABRICS MARKET, BY APPLICATION□96
- 8.1□INTRODUCTION□97
- 8.2□APPAREL□98

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- 8.2.1 □STRINGENT REGULATIONS FOR WORKPLACE SAFETY TO DRIVE MARKET □98
- 8.2.2 □PROTECTIVE CLOTHING □99
- 8.3 □NON-APPAREL □101
- 8.3.1 □RISING AWARENESS IN AUTOMOTIVE AND FURNITURE APPLICATIONS TO DRIVE DEMAND □101
- 8.3.2 □INTERIOR FABRIC FOR TRANSPORTATION □101
- 8.3.3 □HOUSEHOLD & INDUSTRIAL □101
- 9 □FIRE-RESISTANT FABRICS MARKET, BY PROCESSING □103
- 9.1 □INTRODUCTION □103
- 9.2 □WOVEN FIRE-RESISTANT FABRICS □103
- 9.2.1 □REGULATORY PRESSURE AND INDUSTRIAL SAFETY MANDATES TO FUEL MARKET GROWTH □103
- 9.3 □NON-WOVEN FIRE-RESISTANT FABRICS □103
- 9.3.1 □RISING DEMAND FOR DISPOSABLE AND SCALABLE FIRE PROTECTION SOLUTIONS TO DRIVE MARKET □103
- 9.4 □KNITTED FIRE-RESISTANT FABRICS □104
- 9.4.1 □SHIFT TOWARD ERGONOMIC AND LAYERED FIRE-RESISTANT APPAREL TO DRIVE DEMAND □104
- 10 □FIRE-RESISTANT FABRICS MARKET, BY END-USE INDUSTRY □105
- 10.1 □INTRODUCTION □106
- 10.2 □INDUSTRIAL □108
- 10.2.1 □HIGH DEMAND FROM OIL & GAS AND CHEMICAL INDUSTRIES TO DRIVE MARKET □108
- 10.2.2 □CONSTRUCTION & MANUFACTURING □108
- 10.2.3 □OIL & GAS □108
- 10.2.4 □OTHERS □109
- 10.3 □DEFENSE & PUBLIC SAFETY SERVICES □110
- 10.3.1 □RISING NUMBER OF FIRE BREAKOUTS TO BOOST DEMAND □110
- 10.3.2 □MILITARY □110
- 10.3.3 □FIREFIGHTING & LAW ENFORCEMENT □111
- 10.4 □TRANSPORT □112
- 10.4.1 □ASIA PACIFIC TO BE LARGEST AND FASTEST-GROWING MARKET DURING FORECAST PERIOD □112
- 10.4.2 □RAILWAYS □114
- 10.4.3 □AEROSPACE □116
- 10.4.4 □MARINE □117
- 10.4.5 □AUTOMOTIVE □119
- 10.5 □OTHER END-USE INDUSTRIES □121
- 11 □FIRE-RESISTANT FABRICS MARKET, BY REGION □123
- 11.1 □INTRODUCTION □124
- 11.2 □ASIA PACIFIC □126
- 11.2.1 □CHINA □132
- 11.2.1.1 □Growing manufacturing sector to drive market □132
- 11.2.2 □JAPAN □134
- 11.2.2.1 □Stringent safety regulations across automotive and marine sectors to drive market □134
- 11.2.3 □INDIA □136
- 11.2.3.1 □Improvements in industrial infrastructure and business environment to support market growth □136
- 11.2.4 □SOUTH KOREA □137
- 11.2.4.1 □Government initiatives in the industrial sector to drive demand □137
- 11.2.5 □AUSTRALIA & NEW ZEALAND □139
- 11.2.5.1 □High demand from building & construction and electronics industries to drive market □139
- 11.3 □NORTH AMERICA □141
- 11.3.1 □US □147

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| | | |
|----------|--|-----|
| 11.3.1.1 | High demand from defense and firefighting sectors to drive market | 147 |
| 11.3.2 | MEXICO | 148 |
| 11.3.2.1 | Increasing foreign investments to fuel market growth | 148 |
| 11.3.3 | CANADA | 150 |
| 11.3.3.1 | Shift toward advanced textile manufacturing to support market growth | 150 |
| 11.4 | EUROPE | 152 |
| 11.4.1 | GERMANY | 158 |
| 11.4.1.1 | Increasing domestic demand to drive market | 158 |
| 11.4.2 | FRANCE | 160 |
| 11.4.2.1 | Presence of domestic apparel manufacturers and increased industrial production to drive market | 160 |
| 11.4.3 | UK | 161 |
| 11.4.3.1 | Rise in construction activities to fuel demand | 161 |
| 11.4.4 | ITALY | 163 |
| 11.4.4.1 | High level of innovation in end-use products to support market growth | 163 |
| 11.4.5 | RUSSIA | 165 |
| 11.4.5.1 | Strong oil & gas industry to drive demand | 165 |
| 11.5 | SOUTH AMERICA | 166 |
| 11.5.1 | BRAZIL | 172 |
| 11.5.1.1 | Implementation of stringent regulations to drive market | 172 |
| 11.5.2 | ARGENTINA | 173 |
| 11.5.2.1 | Rising demand from protective apparel applications to fuel market | 173 |
| 11.6 | MIDDLE EAST & AFRICA | 175 |
| 11.6.1 | SAUDI ARABIA | 180 |
| 11.6.1.1 | Downstream oil & gas activities to drive demand | 180 |
| 11.6.2 | UAE | 182 |
| 11.6.2.1 | Potential foreign investments and rapid urbanization to positively influence market | 182 |
| 11.6.3 | IRAN | 184 |
| 11.6.3.1 | Investments in infrastructure development, energy projects, and industrial modernization to drive market | 184 |
| 12 | COMPETITIVE LANDSCAPE | 186 |
| 12.1 | INTRODUCTION | 186 |
| 12.2 | KEY PLAYER STRATEGIES/RIGHT TO WIN | 186 |
| 12.3 | MARKET SHARE ANALYSIS | 188 |
| 12.4 | REVENUE ANALYSIS | 190 |
| 12.5 | COMPANY EVALUATION MATRIX: KEY PLAYERS, 2024 | 191 |
| 12.5.1 | STARS | 191 |
| 12.5.2 | EMERGING LEADERS | 191 |
| 12.5.3 | PERVASIVE PLAYERS | 191 |
| 12.5.4 | PARTICIPANTS | 191 |
| 12.5.5 | COMPANY FOOTPRINT: KEY PLAYERS, 2024 | 193 |
| 12.5.5.1 | Company footprint | 193 |
| 12.5.5.2 | Region footprint | 194 |
| 12.5.5.3 | Type footprint | 195 |
| 12.5.5.4 | Application footprint | 196 |

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|------------|--|-----|
| 12.5.5.5 | End-use industry footprint | 197 |
| 12.6 | COMPANY EVALUATION MATRIX: STARTUPS/SMES, 2024 | 198 |
| 12.6.1 | PROGRESSIVE COMPANIES | 198 |
| 12.6.2 | RESPONSIVE COMPANIES | 198 |
| 12.6.3 | DYNAMIC COMPANIES | 198 |
| 12.6.4 | STARTING BLOCKS | 198 |
| 12.6.5 | COMPETITIVE BENCHMARKING: STARTUPS/SMES, 2024 | 200 |
| 12.6.5.1 | Detailed list of key startups/SMEs | 200 |
| 12.6.5.2 | Competitive benchmarking of key startups/SMEs | 200 |
| 12.7 | BRAND/PRODUCT COMPARISON ANALYSIS | 201 |
| 12.8 | COMPANY VALUATION AND FINANCIAL METRICS | 202 |
| 12.9 | COMPETITIVE SCENARIO | 203 |
| 12.9.1 | PRODUCT LAUNCHES | 203 |
| 12.9.2 | DEALS | 204 |
| 12.9.3 | OTHER DEVELOPMENTS | 205 |
| 13 | COMPANY PROFILES | 206 |
| 13.1 | KEY PLAYERS | 206 |
| 13.1.1 | DUPONT DE NEMOURS, INC. | 206 |
| 13.1.1.1 | Business overview | 206 |
| 13.1.1.2 | Products offered | 207 |
| 13.1.1.3 | Recent developments | 208 |
| 13.1.1.3.1 | Product launches | 208 |
| 13.1.1.3.2 | Deals | 209 |
| 13.1.1.4 | MnM view | 209 |
| 13.1.1.4.1 | Key strengths | 209 |
| 13.1.1.4.2 | Strategic choices | 209 |
| 13.1.1.4.3 | Weaknesses and competitive threats | 209 |
| 13.1.2 | TEIJIN LIMITED | 210 |
| 13.1.2.1 | Business overview | 210 |
| 13.1.2.2 | Products offered | 211 |
| 13.1.2.3 | Recent developments | 212 |
| 13.1.2.3.1 | Product launches | 212 |
| 13.1.2.4 | MnM view | 212 |
| 13.1.2.4.1 | Key strengths | 212 |
| 13.1.2.4.2 | Strategic choices | 212 |
| 13.1.2.4.3 | Weaknesses and competitive threats | 212 |
| 13.1.3 | INDORAMA VENTURES PUBLIC COMPANY LIMITED | 213 |
| 13.1.3.1 | Business overview | 213 |
| 13.1.3.2 | Products offered | 214 |
| 13.1.3.3 | Recent developments | 215 |
| 13.1.3.3.1 | Other developments | 215 |
| 13.1.3.4 | MnM View | 215 |
| 13.1.3.4.1 | Key strengths | 215 |
| 13.1.3.4.2 | Strategic choices | 215 |
| 13.1.3.4.3 | Weaknesses and competitive threats | 215 |
| ? | | |
| 13.1.4 | SYENSQO SA/NV | 216 |

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| | | |
|-------------|------------------------------------|-----|
| 13.1.4.1 | Business overview | 216 |
| 13.1.4.2 | Products offered | 217 |
| 13.1.4.3 | MnM view | 217 |
| 13.1.4.3.1 | Key strengths | 217 |
| 13.1.4.3.2 | Strategic choices | 217 |
| 13.1.4.3.3 | Weaknesses and competitive threats | 217 |
| 13.1.5 | TENCATE PROTECTIVE FABRICS | 218 |
| 13.1.5.1 | Business overview | 218 |
| 13.1.5.2 | Products offered | 218 |
| 13.1.5.3 | Recent developments | 219 |
| 13.1.5.3.1 | Product launches | 219 |
| 13.1.5.3.2 | Deals | 219 |
| 13.1.5.4 | MnM view | 220 |
| 13.1.5.4.1 | Key strengths | 220 |
| 13.1.5.4.2 | Strategic choices | 220 |
| 13.1.5.4.3 | Weaknesses and competitive threats | 220 |
| 13.1.6 | LENZING AG | 221 |
| 13.1.6.1 | Business overview | 221 |
| 13.1.6.2 | Products offered | 222 |
| 13.1.6.3 | Recent developments | 223 |
| 13.1.6.3.1 | Deals | 223 |
| 13.1.7 | PBI PERFORMANCE PRODUCTS, INC. | 224 |
| 13.1.7.1 | Business overview | 224 |
| 13.1.7.2 | Products offered | 224 |
| 13.1.7.3 | Recent developments | 225 |
| 13.1.7.3.1 | Deals | 225 |
| 13.1.8 | KANEKA CORPORATION | 226 |
| 13.1.8.1 | Business overview | 226 |
| 13.1.8.2 | Products offered | 227 |
| 13.1.9 | GUN EI CHEMICAL INDUSTRY CO., LTD. | 228 |
| 13.1.9.1 | Business overview | 228 |
| 13.1.9.2 | Products offered | 229 |
| 13.1.10 | MILLIKEN & COMPANY | 230 |
| 13.1.10.1 | Business overview | 230 |
| 13.1.10.2 | Products offered | 230 |
| 13.1.10.3 | Recent developments | 231 |
| 13.1.10.3.1 | Product launches | 231 |
| 13.1.10.3.2 | Deals | 231 |
| 13.1.11 | W. L. GORE & ASSOCIATES, INC. | 232 |
| 13.1.11.1 | Business overview | 232 |
| 13.1.11.2 | Products offered | 232 |
| 13.2 | OTHER PLAYERS | 233 |
| 13.2.1 | GLEN RAVEN, INC. | 233 |
| 13.2.2 | XM TEXTILES | 233 |
| 13.2.3 | BANSWARA SYNTEX LIMITED | 234 |
| 13.2.4 | AUBURN MANUFACTURING, INC. | 234 |
| 13.2.5 | TAIWAN K.K. CORPORATION | 235 |

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- 13.2.6 ADA & INA LTD. 235
- 13.2.7 NEWTEX INDUSTRIES 236
- 13.2.8 TOYOBO CO., LTD. 236
- 13.2.9 DRAPER KNITTING COMPANY 237
- 13.2.10 ARVIND HUMAN PROTECTION 237
- 13.2.11 AGRU AMERICA INC. 238
- 13.2.12 HENAN TIANYU GARMENT 238
- 13.2.13 MARINA TEXTIL 239
- 13.2.14 SAPPHIRE TEXTILES 239
- 14 ADJACENT & RELATED MARKETS 240
- 14.1 INTRODUCTION 240
- 14.2 LIMITATION 240
- 14.3 META-ARAMID FIBER MARKET 240
- 14.3.1 MARKET DEFINITION 240
- 14.3.2 MARKET OVERVIEW 240
- 14.3.3 META-ARAMID FIBER MARKET, BY REGION 241
- 14.3.3.1 Asia Pacific 242
- 14.3.3.2 Europe 244
- 14.3.3.3 North America 245
- 14.3.3.4 Middle East & Africa 246
- 14.3.3.5 South America 247
- 15 APPENDIX 249
- 15.1 DISCUSSION GUIDE 249
- 15.2 KNOWLEDGESTORE: MARKETSDMARKETS' SUBSCRIPTION PORTAL 251
- 15.3 CUSTOMIZATION OPTIONS 253
- 15.4 RELATED REPORTS 253
- 15.5 AUTHOR DETAILS 254

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