

Global High-performance Para-aramid Fiber and Its Composite Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High-performance Para-aramid Fiber and Its Composite Materials market size is expected to reach \$ 2112 million by 2032, rising at a market growth of 6.7% CAGR during the forecast period (2026-2032).

High-performance para-aramid fiber and its composite materials refer to advanced reinforcement fibers produced from para-aramid polymers (e.g., PPTA) and the downstream composite forms including prepregs, woven fabrics, laminates, honeycomb structures, and hybrid composites characterized by extremely high tensile strength, modulus, impact resistance, fatigue durability, thermal stability, and lightweight performance for structural, ballistic, and safety-critical applications.

The high-performance para-aramid fiber and composite material industry chain starts upstream with petrochemical monomers, para-aramid polymer synthesis, spinning and fiber finishing, continues midstream through yarn conversion, fabric weaving, prepreg production, composite lay-up and curing, and extends downstream to defense, aerospace, automotive, energy, and industrial manufacturers that integrate para-aramid composites into ballistic armor, lightweight structures, safety systems, and high-durability mechanical components.

Globally, projects under construction and planning include capacity expansions for para-aramid fiber spinning, new prepreg production lines targeting aerospace and defense programs, localization of composite manufacturing in Asia, upgrades of ballistic composite facilities, development of thermoplastic para-aramid prepregs, and strategic collaborations between fiber producers and composite fabricators to secure supply chains and support long-term defense, aviation, and lightweight transportation demand. In 2025, the global market average gross profit margin of 40%.

The high-performance para-aramid fiber and composite materials market continues to expand as demand for lightweight, impact-resistant materials rises globally. Defense

and ballistic protection remain the most value-dense segments, supported by sustained military procurement and modernization programs.

Aerospace applications focus on prepregs and secondary structural components, emphasizing weight reduction and fire resistance. Automotive adoption is gradual but accelerating in electric and safety-critical parts. North America and Europe dominate high-end consumption due to defense and aerospace concentration.

Asia-Pacific shows the fastest capacity expansion, driven by domestic substitution and industrial upgrading. Opportunities exist in thermoplastic para-aramid composites and hybrid material systems. Risks include high capital intensity, complex processing, and concentrated upstream supply. Technological trends emphasize automation, prepreg efficiency, and recyclability. Competitive dynamics favor vertically integrated producers with fiber-to-composite capabilities.

Overall, the market shows moderate volume growth with strong pricing and technical barriers.

This report studies the global High-performance Para-aramid Fiber and Its Composite Materials demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for High-performance Para-aramid Fiber and Its Composite Materials, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year.

This report explores demand trends and competition, as well as details the characteristics of High-performance Para-aramid Fiber and Its Composite Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High-performance Para-aramid Fiber and Its Composite Materials total market, 2021-2032, (USD Million)

Global High-performance Para-aramid Fiber and Its Composite Materials total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: High-performance Para-aramid Fiber and Its Composite Materials total market, key domestic companies, and share, (USD Million)

Global High-performance Para-aramid Fiber and Its Composite Materials revenue by player, revenue and market share 2021-2026, (USD Million)

Global High-performance Para-aramid Fiber and Its Composite Materials total market by Type, CAGR, 2021-2032, (USD Million)

Global High-performance Para-aramid Fiber and Its Composite Materials total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global High-performance Para-aramid Fiber and Its Composite Materials market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DuPont, Teijin,

Kolon Industries, Hyosung, Tayho, DuPont, Hexcel, Toray Industries, Solvay, Mitsubishi Chemical Group, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world High-performance Para-aramid Fiber and Its Composite Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global High-performance Para-aramid Fiber and Its Composite Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High-performance Para-aramid Fiber and Its Composite Materials Market, Segmentation by Type:

Para-Aramid Fiber

Para-Aramid Pulp

Para-Aramid Woven Fabrics and UD Tapes

Para-Aramid Composite Prepregs and Laminates

Others

Global High-performance Para-aramid Fiber and Its Composite Materials Market,
Segmentation by Composite Matrix Type:

Thermoset

Thermoplastic

Rubber-Based

Others

Global High-performance Para-aramid Fiber and Its Composite Materials Market,
Segmentation by Processing Technology:

Prepreg-Based Para-Aramid Composites

Resin Infusion and RTM Para-Aramid Composites

Filament Winding Para-Aramid Structures

Compression-Molded Para-Aramid Composite Parts

Global High-performance Para-aramid Fiber and Its Composite Materials Market,
Segmentation by Application:

Protective and Safety Equipment

Automotive

Friction and Sealing Materials

Industrial Reinforcement

Others

Companies Profiled:

DuPont

Teijin

Kolon Industries

Hyosung

Tayho

DuPont

Hexcel

Toray Industries

Solvay

Mitsubishi Chemical Group

SGL Carbon

Key Questions Answered

1. How big is the global High-performance Para-aramid Fiber and Its Composite Materials market?
2. What is the demand of the global High-performance Para-aramid Fiber and Its Composite Materials market?
3. What is the year over year growth of the global High-performance Para-aramid Fiber and Its Composite Materials market?
4. What is the total value of the global High-performance Para-aramid Fiber and Its

Composite Materials market?

5. Who are the Major Players in the global High-performance Para-aramid Fiber and Its Composite Materials market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 High-performance Para-aramid Fiber and Its Composite Materials Introduction
- 1.2 World High-performance Para-aramid Fiber and Its Composite Materials Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World High-performance Para-aramid Fiber and Its Composite Materials Total Market by Region (by Headquarter Location)
 - 1.3.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Region (2021-2032), (by Headquarter Location)
 - 1.3.2 United States Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032)
 - 1.3.3 China Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032)
 - 1.3.4 Europe Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032)
 - 1.3.5 Japan Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032)
 - 1.3.6 South Korea Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032)
 - 1.3.7 ASEAN Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032)
 - 1.3.8 India Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 High-performance Para-aramid Fiber and Its Composite Materials Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Major Market Trends

2 DEMAND SUMMARY

- 2.1 World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value (2021-2032)
- 2.2 World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value by Region
 - 2.2.1 World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value by Region (2021-2026)
 - 2.2.2 World High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value Forecast by Region (2027-2032)

2.3 United States High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032)

2.4 China High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032)

2.5 Europe High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032)

2.6 Japan High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032)

2.7 South Korea High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032)

2.8 ASEAN High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032)

2.9 India High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032)

3 WORLD HIGH-PERFORMANCE PARA-ARAMID FIBER AND ITS COMPOSITE MATERIALS COMPANIES COMPETITIVE ANALYSIS

3.1 World High-performance Para-aramid Fiber and Its Composite Materials Revenue by Player (2021-2026)

3.2 Industry Rank and Concentration Rate (CR)

3.2.1 Global High-performance Para-aramid Fiber and Its Composite Materials Industry Rank of Major Players

3.2.2 Global Concentration Ratios (CR4) for High-performance Para-aramid Fiber and Its Composite Materials in 2025

3.2.3 Global Concentration Ratios (CR8) for High-performance Para-aramid Fiber and Its Composite Materials in 2025

3.3 High-performance Para-aramid Fiber and Its Composite Materials Company Evaluation Quadrant

3.4 High-performance Para-aramid Fiber and Its Composite Materials Market: Overall Company Footprint Analysis

3.4.1 High-performance Para-aramid Fiber and Its Composite Materials Market: Region Footprint

3.4.2 High-performance Para-aramid Fiber and Its Composite Materials Market: Company Product Type Footprint

3.4.3 High-performance Para-aramid Fiber and Its Composite Materials Market: Company Product Application Footprint

3.5 Competitive Environment

- 3.5.1 Historical Structure of the Industry
- 3.5.2 Barriers of Market Entry
- 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)

- 4.1 United States VS China: High-performance Para-aramid Fiber and Its Composite Materials Revenue Comparison (by Headquarter Location)
 - 4.1.1 United States VS China: High-performance Para-aramid Fiber and Its Composite Materials Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
 - 4.1.2 United States VS China: High-performance Para-aramid Fiber and Its Composite Materials Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: High-performance Para-aramid Fiber and Its Composite Materials Consumption Value Comparison
 - 4.2.1 United States VS China: High-performance Para-aramid Fiber and Its Composite Materials Consumption Value Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: High-performance Para-aramid Fiber and Its Composite Materials Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based High-performance Para-aramid Fiber and Its Composite Materials Companies and Market Share, 2021-2026
 - 4.3.1 United States Based High-performance Para-aramid Fiber and Its Composite Materials Companies, Headquarters (States, Country)
 - 4.3.2 United States Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue, (2021-2026)
- 4.4 China Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue and Market Share, 2021-2026
 - 4.4.1 China Based High-performance Para-aramid Fiber and Its Composite Materials Companies, Company Headquarters (Province, Country)
 - 4.4.2 China Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue, (2021-2026)
- 4.5 Rest of World Based High-performance Para-aramid Fiber and Its Composite Materials Companies and Market Share, 2021-2026
 - 4.5.1 Rest of World Based High-performance Para-aramid Fiber and Its Composite Materials Companies, Headquarters (Province, Country)
 - 4.5.2 Rest of World Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Para-Aramid Fiber

5.2.2 Para-Aramid Pulp

5.2.3 Para-Aramid Woven Fabrics and UD Tapes

5.2.4 Para-Aramid Composite Prepregs and Laminates

5.2.5 Others

5.3 Market Segment by Type

5.3.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Type (2021-2026)

5.3.2 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Type (2027-2032)

5.3.3 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Type (2027-2032)

6 MARKET ANALYSIS BY COMPOSITE MATRIX TYPE

6.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Overview by Composite Matrix Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Composite Matrix Type

6.2.1 Thermoset

6.2.2 Thermoplastic

6.2.3 Rubber-Based

6.2.4 Others

6.3 Market Segment by Composite Matrix Type

6.3.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Composite Matrix Type (2021-2026)

6.3.2 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Composite Matrix Type (2027-2032)

6.3.3 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Composite Matrix Type (2027-2032)

7 MARKET ANALYSIS BY PROCESSING TECHNOLOGY

7.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Overview by Processing Technology: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Processing Technology

7.2.1 Prepreg-Based Para-Aramid Composites

7.2.2 Resin Infusion and RTM Para-Aramid Composites

7.2.3 Filament Winding Para-Aramid Structures

7.2.4 Compression-Molded Para-Aramid Composite Parts

7.3 Market Segment by Processing Technology

7.3.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Processing Technology (2021-2026)

7.3.2 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Processing Technology (2027-2032)

7.3.3 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Processing Technology (2027-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Protective and Safety Equipment

8.2.2 Automotive

8.2.3 Friction and Sealing Materials

8.2.4 Industrial Reinforcement

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Application (2021-2026)

8.3.2 World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Application (2027-2032)

8.3.3 World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Application (2021-2032)

9 COMPANY PROFILES

9.1 DuPont

9.1.1 DuPont Details

9.1.2 DuPont Major Business

9.1.3 DuPont High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.1.4 DuPont High-performance Para-aramid Fiber and Its Composite Materials

Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 DuPont Recent Developments/Updates

9.1.6 DuPont Competitive Strengths & Weaknesses

9.2 Teijin

9.2.1 Teijin Details

9.2.2 Teijin Major Business

9.2.3 Teijin High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.2.4 Teijin High-performance Para-aramid Fiber and Its Composite Materials

Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Teijin Recent Developments/Updates

9.2.6 Teijin Competitive Strengths & Weaknesses

9.3 Kolon Industries

9.3.1 Kolon Industries Details

9.3.2 Kolon Industries Major Business

9.3.3 Kolon Industries High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.3.4 Kolon Industries High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Kolon Industries Recent Developments/Updates

9.3.6 Kolon Industries Competitive Strengths & Weaknesses

9.4 Hyosung

9.4.1 Hyosung Details

9.4.2 Hyosung Major Business

9.4.3 Hyosung High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.4.4 Hyosung High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Hyosung Recent Developments/Updates

9.4.6 Hyosung Competitive Strengths & Weaknesses

9.5 Tayho

9.5.1 Tayho Details

9.5.2 Tayho Major Business

9.5.3 Tayho High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.5.4 Tayho High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 Tayho Recent Developments/Updates

9.5.6 Tayho Competitive Strengths & Weaknesses

9.6 DuPont

9.6.1 DuPont Details

9.6.2 DuPont Major Business

9.6.3 DuPont High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.6.4 DuPont High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.6.5 DuPont Recent Developments/Updates

9.6.6 DuPont Competitive Strengths & Weaknesses

9.7 Hexcel

9.7.1 Hexcel Details

9.7.2 Hexcel Major Business

9.7.3 Hexcel High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.7.4 Hexcel High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.7.5 Hexcel Recent Developments/Updates

9.7.6 Hexcel Competitive Strengths & Weaknesses

9.8 Toray Industries

9.8.1 Toray Industries Details

9.8.2 Toray Industries Major Business

9.8.3 Toray Industries High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.8.4 Toray Industries High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.8.5 Toray Industries Recent Developments/Updates

9.8.6 Toray Industries Competitive Strengths & Weaknesses

9.9 Solvay

9.9.1 Solvay Details

9.9.2 Solvay Major Business

9.9.3 Solvay High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.9.4 Solvay High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.9.5 Solvay Recent Developments/Updates

9.9.6 Solvay Competitive Strengths & Weaknesses

9.10 Mitsubishi Chemical Group

9.10.1 Mitsubishi Chemical Group Details

9.10.2 Mitsubishi Chemical Group Major Business

9.10.3 Mitsubishi Chemical Group High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.10.4 Mitsubishi Chemical Group High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 Mitsubishi Chemical Group Recent Developments/Updates

9.10.6 Mitsubishi Chemical Group Competitive Strengths & Weaknesses

9.11 SGL Carbon

9.11.1 SGL Carbon Details

9.11.2 SGL Carbon Major Business

9.11.3 SGL Carbon High-performance Para-aramid Fiber and Its Composite Materials Product and Services

9.11.4 SGL Carbon High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 SGL Carbon Recent Developments/Updates

9.11.6 SGL Carbon Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 High-performance Para-aramid Fiber and Its Composite Materials Industry Chain

10.2 High-performance Para-aramid Fiber and Its Composite Materials Upstream Analysis

10.3 High-performance Para-aramid Fiber and Its Composite Materials Midstream Analysis

10.4 High-performance Para-aramid Fiber and Its Composite Materials Downstream Analysis

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

- Table 1. World High-performance Para-aramid Fiber and Its Composite Materials Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)
- Table 2. World High-performance Para-aramid Fiber and Its Composite Materials Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)
- Table 3. World High-performance Para-aramid Fiber and Its Composite Materials Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)
- Table 4. World High-performance Para-aramid Fiber and Its Composite Materials Revenue Market Share by Region (2021-2026), (by Headquarter Location)
- Table 5. World High-performance Para-aramid Fiber and Its Composite Materials Revenue Market Share by Region (2027-2032), (by Headquarter Location)
- Table 6. Major Market Trends
- Table 7. World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)
- Table 8. World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value by Region (2021-2026) & (USD Million)
- Table 9. World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value Forecast by Region (2027-2032) & (USD Million)
- Table 10. World High-performance Para-aramid Fiber and Its Composite Materials Revenue by Player (2021-2026) & (USD Million)
- Table 11. Revenue Market Share of Key High-performance Para-aramid Fiber and Its Composite Materials Players in 2025
- Table 12. World High-performance Para-aramid Fiber and Its Composite Materials Industry Rank of Major Player, Based on Revenue in 2025
- Table 13. Global High-performance Para-aramid Fiber and Its Composite Materials Company Evaluation Quadrant
- Table 14. Head Office of Key High-performance Para-aramid Fiber and Its Composite Materials Players
- Table 15. High-performance Para-aramid Fiber and Its Composite Materials Market: Company Product Type Footprint
- Table 16. High-performance Para-aramid Fiber and Its Composite Materials Market: Company Product Application Footprint
- Table 17. High-performance Para-aramid Fiber and Its Composite Materials Mergers & Acquisitions Activity
- Table 18. United States VS China High-performance Para-aramid Fiber and Its

Composite Materials Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China High-performance Para-aramid Fiber and Its Composite Materials Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based High-performance Para-aramid Fiber and Its Composite Materials Companies, Headquarters (States, Country)

Table 21. United States Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue, (2021-2026) & (USD Million)

Table 22. United States Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue Market Share (2021-2026)

Table 23. China Based High-performance Para-aramid Fiber and Its Composite Materials Companies, Headquarters (Province, Country)

Table 24. China Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue Market Share (2021-2026)

Table 26. Rest of World Based High-performance Para-aramid Fiber and Its Composite Materials Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies High-performance Para-aramid Fiber and Its Composite Materials Revenue Market Share (2021-2026)

Table 29. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Type (2027-2032) & (USD Million)

Table 32. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Composite Matrix Type, (USD Million), 2021 & 2025 & 2032

Table 33. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Value by Composite Matrix Type (2021-2026) & (USD Million)

Table 34. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Composite Matrix Type (2027-2032) & (USD Million)

Table 35. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Processing Technology, (USD Million), 2021 & 2025 & 2032

Table 36. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Value by Processing Technology (2021-2026) & (USD Million)

Table 37. World High-performance Para-aramid Fiber and Its Composite Materials

Market Size by Processing Technology (2027-2032) & (USD Million)

Table 38. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Application (2021-2026) & (USD Million)

Table 40. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Application (2027-2032) & (USD Million)

Table 41. DuPont Basic Information, Manufacturing Base and Competitors

Table 42. DuPont Major Business

Table 43. DuPont High-performance Para-aramid Fiber and Its Composite Materials Product and Services

Table 44. DuPont High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 45. DuPont Recent Developments/Updates

Table 46. DuPont Competitive Strengths & Weaknesses

Table 47. Teijin Basic Information, Manufacturing Base and Competitors

Table 48. Teijin Major Business

Table 49. Teijin High-performance Para-aramid Fiber and Its Composite Materials Product and Services

Table 50. Teijin High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 51. Teijin Recent Developments/Updates

Table 52. Teijin Competitive Strengths & Weaknesses

Table 53. Kolon Industries Basic Information, Manufacturing Base and Competitors

Table 54. Kolon Industries Major Business

Table 55. Kolon Industries High-performance Para-aramid Fiber and Its Composite Materials Product and Services

Table 56. Kolon Industries High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 57. Kolon Industries Recent Developments/Updates

Table 58. Kolon Industries Competitive Strengths & Weaknesses

Table 59. Hyosung Basic Information, Manufacturing Base and Competitors

Table 60. Hyosung Major Business

Table 61. Hyosung High-performance Para-aramid Fiber and Its Composite Materials Product and Services

Table 62. Hyosung High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 63. Hyosung Recent Developments/Updates

Table 64. Hyosung Competitive Strengths & Weaknesses

- Table 65. Tayho Basic Information, Manufacturing Base and Competitors
- Table 66. Tayho Major Business
- Table 67. Tayho High-performance Para-aramid Fiber and Its Composite Materials Product and Services
- Table 68. Tayho High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 69. Tayho Recent Developments/Updates
- Table 70. Tayho Competitive Strengths & Weaknesses
- Table 71. DuPont Basic Information, Manufacturing Base and Competitors
- Table 72. DuPont Major Business
- Table 73. DuPont High-performance Para-aramid Fiber and Its Composite Materials Product and Services
- Table 74. DuPont High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 75. DuPont Recent Developments/Updates
- Table 76. DuPont Competitive Strengths & Weaknesses
- Table 77. Hexcel Basic Information, Manufacturing Base and Competitors
- Table 78. Hexcel Major Business
- Table 79. Hexcel High-performance Para-aramid Fiber and Its Composite Materials Product and Services
- Table 80. Hexcel High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 81. Hexcel Recent Developments/Updates
- Table 82. Hexcel Competitive Strengths & Weaknesses
- Table 83. Toray Industries Basic Information, Manufacturing Base and Competitors
- Table 84. Toray Industries Major Business
- Table 85. Toray Industries High-performance Para-aramid Fiber and Its Composite Materials Product and Services
- Table 86. Toray Industries High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 87. Toray Industries Recent Developments/Updates
- Table 88. Toray Industries Competitive Strengths & Weaknesses
- Table 89. Solvay Basic Information, Manufacturing Base and Competitors
- Table 90. Solvay Major Business
- Table 91. Solvay High-performance Para-aramid Fiber and Its Composite Materials Product and Services
- Table 92. Solvay High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 93. Solvay Recent Developments/Updates

- Table 94. Solvay Competitive Strengths & Weaknesses
- Table 95. Mitsubishi Chemical Group Basic Information, Manufacturing Base and Competitors
- Table 96. Mitsubishi Chemical Group Major Business
- Table 97. Mitsubishi Chemical Group High-performance Para-aramid Fiber and Its Composite Materials Product and Services
- Table 98. Mitsubishi Chemical Group High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 99. Mitsubishi Chemical Group Recent Developments/Updates
- Table 100. Mitsubishi Chemical Group Competitive Strengths & Weaknesses
- Table 101. SGL Carbon Basic Information, Manufacturing Base and Competitors
- Table 102. SGL Carbon Major Business
- Table 103. SGL Carbon High-performance Para-aramid Fiber and Its Composite Materials Product and Services
- Table 104. SGL Carbon High-performance Para-aramid Fiber and Its Composite Materials Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 105. SGL Carbon Recent Developments/Updates
- Table 106. SGL Carbon Competitive Strengths & Weaknesses
- Table 107. Global Key Players of High-performance Para-aramid Fiber and Its Composite Materials Upstream (Raw Materials)
- Table 108. Global High-performance Para-aramid Fiber and Its Composite Materials Typical Customers

List Of Figures

LIST OF FIGURES

Figure 1. High-performance Para-aramid Fiber and Its Composite Materials Picture

Figure 2. World High-performance Para-aramid Fiber and Its Composite Materials Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High-performance Para-aramid Fiber and Its Composite Materials Total Revenue (2021-2032) & (USD Million)

Figure 4. World High-performance Para-aramid Fiber and Its Composite Materials Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World High-performance Para-aramid Fiber and Its Composite Materials Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company High-performance Para-aramid Fiber and Its Composite Materials Revenue (2021-2032) & (USD Million)

Figure 13. High-performance Para-aramid Fiber and Its Composite Materials Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value (2021-2032) & (USD Million)

Figure 16. World High-performance Para-aramid Fiber and Its Composite Materials Consumption Value Market Share by Region (2021-2032)

Figure 17. United States High-performance Para-aramid Fiber and Its Composite Materials Consumption Value (2021-2032) & (USD Million)

Figure 18. China High-performance Para-aramid Fiber and Its Composite Materials Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea High-performance Para-aramid Fiber and Its Composite

Materials Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032) & (USD Million)

Figure 23. India High-performance Para-aramid Fiber and Its Composite Materials

Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of High-performance Para-aramid Fiber and Its

Composite Materials by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for High-performance Para-

aramid Fiber and Its Composite Materials Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for High-performance Para-

aramid Fiber and Its Composite Materials Markets in 2025

Figure 27. United States VS China: High-performance Para-aramid Fiber and Its

Composite Materials Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High-performance Para-aramid Fiber and Its

Composite Materials Consumption Value Market Share Comparison (2021 & 2025 &

2032)

Figure 29. World High-performance Para-aramid Fiber and Its Composite Materials

Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World High-performance Para-aramid Fiber and Its Composite Materials

Market Size Market Share by Type in 2025

Figure 31. Para-Aramid Fiber

Figure 32. Para-Aramid Pulp

Figure 33. Para-Aramid Woven Fabrics and UD Tapes

Figure 34. Para-Aramid Composite Prepregs and Laminates

Figure 35. Others

Figure 36. World High-performance Para-aramid Fiber and Its Composite Materials

Market Size Market Share by Type (2021-2032)

Figure 37. World High-performance Para-aramid Fiber and Its Composite Materials

Market Size by Composite Matrix Type, (USD Million), 2021 & 2025 & 2032

Figure 38. World High-performance Para-aramid Fiber and Its Composite Materials

Market Size Market Share by Composite Matrix Type in 2025

Figure 39. Thermoset

Figure 40. Thermoplastic

Figure 41. Rubber-Based

Figure 42. Others

Figure 43. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Composite Matrix Type (2021-2032)

Figure 44. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Processing Technology, (USD Million), 2021 & 2025 & 2032

Figure 45. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Processing Technology in 2025

Figure 46. Prepreg-Based Para-Aramid Composites

Figure 47. Resin Infusion and RTM Para-Aramid Composites

Figure 48. Filament Winding Para-Aramid Structures

Figure 49. Compression-Molded Para-Aramid Composite Parts

Figure 50. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Processing Technology (2021-2032)

Figure 51. World High-performance Para-aramid Fiber and Its Composite Materials Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 52. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Application in 2025

Figure 53. Protective and Safety Equipment

Figure 54. Automotive

Figure 55. Friction and Sealing Materials

Figure 56. Industrial Reinforcement

Figure 57. Others

Figure 58. World High-performance Para-aramid Fiber and Its Composite Materials Market Size Market Share by Application (2021-2032)

Figure 59. High-performance Para-aramid Fiber and Its Composite Materials Industrial Chain

Figure 60. Methodology

Figure 61. Research Process and Data Source

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