

Global Smart Textile Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Smart Textile market size is expected to reach \$ 12330 million by 2032, rising at a market growth of 16.3% CAGR during the forecast period (2026-2032).

Smart textiles are advanced fabrics engineered to sense and respond to environmental stimuli or user inputs. These textiles integrate technologies such as conductive threads, microelectronic components, and flexible sensors into their structure, enabling functionalities like monitoring vital signs, changing color, regulating temperature, or transmitting data. Smart textiles are widely used in healthcare, sports, defense, and industrial applications, facilitating interactive and adaptive experiences between the wearer and their surroundings.

Market Development Opportunities & Main Driving Factors

With the accelerated convergence of IoT, flexible electronics, and wearable devices, the smart textile industry is poised for rapid expansion. Government-level investments in digital health, intelligent manufacturing, and military modernization are providing strong policy support for industrial development. Demand for personalized, real-time, and remote monitoring solutions is rising across healthcare, fitness, and defense sectors, facilitating fast adoption of smart textiles in heart rate tracking, fatigue detection, and temperature/humidity sensing. On the cost side, advancements in sensor integration and scalable flexible materials are reducing manufacturing costs, enabling smart textiles to expand from niche applications into mass-market segments.

Market Challenges, Risks, & Restraints

Despite strong growth potential, the smart textile market faces several hurdles, including

material reliability, washability, power management, and data security concerns. Many flexible electronic components are not yet mass-produced, leading to inconsistent product quality and limited scalability. Rising consumer expectations for comfort and wearability require continuous innovation in textile architecture, weight reduction, and power transmission. As global data privacy regulations (e.g., GDPR, HIPAA) tighten, smart garments involving biometric data must comply with strict legal frameworks, adding to development complexity and market entry barriers. Moreover, some companies lack core technological capabilities or rely heavily on external modules, leading to homogenization and potential marginalization by dominant industry players.

Downstream Demand Trends

Healthcare is emerging as the fastest-growing application for smart textiles. Non-invasive vital sign monitoring, remote elderly care, and post-surgical recovery solutions are increasing smart clothing adoption among hospitals, eldercare institutions, and home users. In the sports and fitness sector, strong demand for performance analytics, posture training, and injury prevention is fueling investment by athletic brands and tech firms. Meanwhile, industrial and defense applications—such as sensor-integrated workwear and combat uniforms—are shifting from pilot programs to routine procurement, driving enterprise demand for customized and system-integrated solutions. Overall, smart textiles are evolving into data-enabled infrastructure, powering personalized health, immersive experiences, and safer workplaces.

This report studies the global Smart Textile production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Smart Textile 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 Smart Textile that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Smart Textile total production and demand, 2021-2032, (Units)

Global Smart Textile total production value, 2021-2032, (USD Million)

Global Smart Textile production by region & country, production, value, CAGR,

2021-2032, (USD Million) & (Units), (based on production site)

Global Smart Textile consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Smart Textile domestic production, consumption, key domestic manufacturers and share

Global Smart Textile production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Smart Textile production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Smart Textile production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Smart Textile market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Adidas, Under Armour, Jabil, Toray Industries, Hexoskin, AiQ Smart Clothing, Schoeller Textiles, Sensoria, Outlast Technologies, Myant, 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 Smart Textile market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (US\$/Unit) by manufacturer, 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 Smart Textile Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Smart Textile Market, Segmentation by Type:

Passive Smart Textile

Active Smart Textile

Ultra-Smart Textile

Global Smart Textile Market, Segmentation by Application:

Architecture

Fashion and Entertainment

Medical

Defense and Military

Sports & Fitness

Transportation

Companies Profiled:

Adidas

Under Armour

Jabil

Toray Industries

Hexoskin

AiQ Smart Clothing

Schoeller Textiles

Sensoria

Outlast Technologies

Myant

Nyokas Technologies

Eeonyx

Nextiles

Xenoma

Wearable X

Myontec

Siren

Athos

Key Questions Answered:

1. How big is the global Smart Textile market?
2. What is the demand of the global Smart Textile market?
3. What is the year over year growth of the global Smart Textile market?
4. What is the production and production value of the global Smart Textile market?
5. Who are the key producers in the global Smart Textile market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Smart Textile Introduction
- 1.2 World Smart Textile Supply & Forecast
 - 1.2.1 World Smart Textile Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Smart Textile Production (2021-2032)
 - 1.2.3 World Smart Textile Pricing Trends (2021-2032)
- 1.3 World Smart Textile Production by Region (Based on Production Site)
 - 1.3.1 World Smart Textile Production Value by Region (2021-2032)
 - 1.3.2 World Smart Textile Production by Region (2021-2032)
 - 1.3.3 World Smart Textile Average Price by Region (2021-2032)
 - 1.3.4 North America Smart Textile Production (2021-2032)
 - 1.3.5 Europe Smart Textile Production (2021-2032)
 - 1.3.6 China Smart Textile Production (2021-2032)
 - 1.3.7 Japan Smart Textile Production (2021-2032)
 - 1.3.8 Southeast Asia Smart Textile Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Smart Textile Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Smart Textile Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Smart Textile Demand (2021-2032)
- 2.2 World Smart Textile Consumption by Region
 - 2.2.1 World Smart Textile Consumption by Region (2021-2026)
 - 2.2.2 World Smart Textile Consumption Forecast by Region (2027-2032)
- 2.3 United States Smart Textile Consumption (2021-2032)
- 2.4 China Smart Textile Consumption (2021-2032)
- 2.5 Europe Smart Textile Consumption (2021-2032)
- 2.6 Japan Smart Textile Consumption (2021-2032)
- 2.7 South Korea Smart Textile Consumption (2021-2032)
- 2.8 ASEAN Smart Textile Consumption (2021-2032)
- 2.9 India Smart Textile Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Smart Textile Production Value by Manufacturer (2021-2026)
- 3.2 World Smart Textile Production by Manufacturer (2021-2026)
- 3.3 World Smart Textile Average Price by Manufacturer (2021-2026)
- 3.4 Smart Textile Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Smart Textile Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Smart Textile in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Smart Textile in 2025
- 3.6 Smart Textile Market: Overall Company Footprint Analysis
 - 3.6.1 Smart Textile Market: Region Footprint
 - 3.6.2 Smart Textile Market: Company Product Type Footprint
 - 3.6.3 Smart Textile Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Smart Textile Production Value Comparison
 - 4.1.1 United States VS China: Smart Textile Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Smart Textile Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Smart Textile Production Comparison
 - 4.2.1 United States VS China: Smart Textile Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Smart Textile Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Smart Textile Consumption Comparison
 - 4.3.1 United States VS China: Smart Textile Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Smart Textile Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Smart Textile Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Smart Textile Manufacturers, Headquarters and Production Site (States, Country)

- 4.4.2 United States Based Manufacturers Smart Textile Production Value (2021-2026)
- 4.4.3 United States Based Manufacturers Smart Textile Production (2021-2026)
- 4.5 China Based Smart Textile Manufacturers and Market Share
 - 4.5.1 China Based Smart Textile Manufacturers, Headquarters and Production Site (Province, Country)
 - 4.5.2 China Based Manufacturers Smart Textile Production Value (2021-2026)
 - 4.5.3 China Based Manufacturers Smart Textile Production (2021-2026)
- 4.6 Rest of World Based Smart Textile Manufacturers and Market Share, 2021-2026
 - 4.6.1 Rest of World Based Smart Textile Manufacturers, Headquarters and Production Site (State, Country)
 - 4.6.2 Rest of World Based Manufacturers Smart Textile Production Value (2021-2026)
 - 4.6.3 Rest of World Based Manufacturers Smart Textile Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

- 5.1 World Smart Textile Market Size Overview by Type: 2021 VS 2025 VS 2032
- 5.2 Segment Introduction by Type
 - 5.2.1 Passive Smart Textile
 - 5.2.2 Active Smart Textile
 - 5.2.3 Ultra-Smart Textile
- 5.3 Market Segment by Type
 - 5.3.1 World Smart Textile Production by Type (2021-2032)
 - 5.3.2 World Smart Textile Production Value by Type (2021-2032)
 - 5.3.3 World Smart Textile Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY APPLICATION

- 6.1 World Smart Textile Market Size Overview by Application: 2021 VS 2025 VS 2032
- 6.2 Segment Introduction by Application
 - 6.2.1 Architecture
 - 6.2.2 Fashion and Entertainment
 - 6.2.3 Medical
 - 6.2.4 Defense and Military
 - 6.2.5 Sports & Fitness
 - 6.2.6 Transportation
- 6.3 Market Segment by Application
 - 6.3.1 World Smart Textile Production by Application (2021-2032)
 - 6.3.2 World Smart Textile Production Value by Application (2021-2032)
 - 6.3.3 World Smart Textile Average Price by Application (2021-2032)

7 COMPANY PROFILES

7.1 Adidas

7.1.1 Adidas Details

7.1.2 Adidas Major Business

7.1.3 Adidas Smart Textile Product and Services

7.1.4 Adidas Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.1.5 Adidas Recent Developments/Updates

7.1.6 Adidas Competitive Strengths & Weaknesses

7.2 Under Armour

7.2.1 Under Armour Details

7.2.2 Under Armour Major Business

7.2.3 Under Armour Smart Textile Product and Services

7.2.4 Under Armour Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.2.5 Under Armour Recent Developments/Updates

7.2.6 Under Armour Competitive Strengths & Weaknesses

7.3 Jabil

7.3.1 Jabil Details

7.3.2 Jabil Major Business

7.3.3 Jabil Smart Textile Product and Services

7.3.4 Jabil Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.3.5 Jabil Recent Developments/Updates

7.3.6 Jabil Competitive Strengths & Weaknesses

7.4 Toray Industries

7.4.1 Toray Industries Details

7.4.2 Toray Industries Major Business

7.4.3 Toray Industries Smart Textile Product and Services

7.4.4 Toray Industries Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.4.5 Toray Industries Recent Developments/Updates

7.4.6 Toray Industries Competitive Strengths & Weaknesses

7.5 Hexoskin

7.5.1 Hexoskin Details

7.5.2 Hexoskin Major Business

7.5.3 Hexoskin Smart Textile Product and Services

7.5.4 Hexoskin Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.5.5 Hexoskin Recent Developments/Updates

7.5.6 Hexoskin Competitive Strengths & Weaknesses

7.6 AiQ Smart Clothing

7.6.1 AiQ Smart Clothing Details

7.6.2 AiQ Smart Clothing Major Business

7.6.3 AiQ Smart Clothing Smart Textile Product and Services

7.6.4 AiQ Smart Clothing Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.6.5 AiQ Smart Clothing Recent Developments/Updates

7.6.6 AiQ Smart Clothing Competitive Strengths & Weaknesses

7.7 Schoeller Textiles

7.7.1 Schoeller Textiles Details

7.7.2 Schoeller Textiles Major Business

7.7.3 Schoeller Textiles Smart Textile Product and Services

7.7.4 Schoeller Textiles Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.7.5 Schoeller Textiles Recent Developments/Updates

7.7.6 Schoeller Textiles Competitive Strengths & Weaknesses

7.8 Sensoria

7.8.1 Sensoria Details

7.8.2 Sensoria Major Business

7.8.3 Sensoria Smart Textile Product and Services

7.8.4 Sensoria Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.8.5 Sensoria Recent Developments/Updates

7.8.6 Sensoria Competitive Strengths & Weaknesses

7.9 Outlast Technologies

7.9.1 Outlast Technologies Details

7.9.2 Outlast Technologies Major Business

7.9.3 Outlast Technologies Smart Textile Product and Services

7.9.4 Outlast Technologies Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)

7.9.5 Outlast Technologies Recent Developments/Updates

7.9.6 Outlast Technologies Competitive Strengths & Weaknesses

7.10 Myant

7.10.1 Myant Details

7.10.2 Myant Major Business

- 7.10.3 Myant Smart Textile Product and Services
- 7.10.4 Myant Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.10.5 Myant Recent Developments/Updates
- 7.10.6 Myant Competitive Strengths & Weaknesses
- 7.11 Nyokas Technologies
 - 7.11.1 Nyokas Technologies Details
 - 7.11.2 Nyokas Technologies Major Business
 - 7.11.3 Nyokas Technologies Smart Textile Product and Services
 - 7.11.4 Nyokas Technologies Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.11.5 Nyokas Technologies Recent Developments/Updates
 - 7.11.6 Nyokas Technologies Competitive Strengths & Weaknesses
- 7.12 Eeonyx
 - 7.12.1 Eeonyx Details
 - 7.12.2 Eeonyx Major Business
 - 7.12.3 Eeonyx Smart Textile Product and Services
 - 7.12.4 Eeonyx Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.12.5 Eeonyx Recent Developments/Updates
 - 7.12.6 Eeonyx Competitive Strengths & Weaknesses
- 7.13 Nextiles
 - 7.13.1 Nextiles Details
 - 7.13.2 Nextiles Major Business
 - 7.13.3 Nextiles Smart Textile Product and Services
 - 7.13.4 Nextiles Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.13.5 Nextiles Recent Developments/Updates
 - 7.13.6 Nextiles Competitive Strengths & Weaknesses
- 7.14 Xenoma
 - 7.14.1 Xenoma Details
 - 7.14.2 Xenoma Major Business
 - 7.14.3 Xenoma Smart Textile Product and Services
 - 7.14.4 Xenoma Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.14.5 Xenoma Recent Developments/Updates
 - 7.14.6 Xenoma Competitive Strengths & Weaknesses
- 7.15 Wearable X
 - 7.15.1 Wearable X Details

- 7.15.2 Wearable X Major Business
- 7.15.3 Wearable X Smart Textile Product and Services
- 7.15.4 Wearable X Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 7.15.5 Wearable X Recent Developments/Updates
- 7.15.6 Wearable X Competitive Strengths & Weaknesses
- 7.16 Myontec
 - 7.16.1 Myontec Details
 - 7.16.2 Myontec Major Business
 - 7.16.3 Myontec Smart Textile Product and Services
 - 7.16.4 Myontec Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.16.5 Myontec Recent Developments/Updates
 - 7.16.6 Myontec Competitive Strengths & Weaknesses
- 7.17 Siren
 - 7.17.1 Siren Details
 - 7.17.2 Siren Major Business
 - 7.17.3 Siren Smart Textile Product and Services
 - 7.17.4 Siren Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.17.5 Siren Recent Developments/Updates
 - 7.17.6 Siren Competitive Strengths & Weaknesses
- 7.18 Athos
 - 7.18.1 Athos Details
 - 7.18.2 Athos Major Business
 - 7.18.3 Athos Smart Textile Product and Services
 - 7.18.4 Athos Smart Textile Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 7.18.5 Athos Recent Developments/Updates
 - 7.18.6 Athos Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Smart Textile Industry Chain
- 8.2 Smart Textile Upstream Analysis
 - 8.2.1 Smart Textile Core Raw Materials
 - 8.2.2 Main Manufacturers of Smart Textile Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis

- 8.5 Smart Textile Production Mode
- 8.6 Smart Textile Procurement Model
- 8.7 Smart Textile Industry Sales Model and Sales Channels
 - 8.7.1 Smart Textile Sales Model
 - 8.7.2 Smart Textile Typical Distributors

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Smart Textile Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Smart Textile Production Value by Region (2021-2026) & (USD Million)

Table 3. World Smart Textile Production Value by Region (2027-2032) & (USD Million)

Table 4. World Smart Textile Production Value Market Share by Region (2021-2026)

Table 5. World Smart Textile Production Value Market Share by Region (2027-2032)

Table 6. World Smart Textile Production by Region (2021-2026) & (Units)

Table 7. World Smart Textile Production by Region (2027-2032) & (Units)

Table 8. World Smart Textile Production Market Share by Region (2021-2026)

Table 9. World Smart Textile Production Market Share by Region (2027-2032)

Table 10. World Smart Textile Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Smart Textile Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Smart Textile Major Market Trends

Table 13. World Smart Textile Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Units)

Table 14. World Smart Textile Consumption by Region (2021-2026) & (Units)

Table 15. World Smart Textile Consumption Forecast by Region (2027-2032) & (Units)

Table 16. World Smart Textile Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Smart Textile Producers in 2025

Table 18. World Smart Textile Production by Manufacturer (2021-2026) & (Units)

Table 19. Production Market Share of Key Smart Textile Producers in 2025

Table 20. World Smart Textile Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Smart Textile Company Evaluation Quadrant

Table 22. World Smart Textile Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Smart Textile Production Site of Key Manufacturer

Table 24. Smart Textile Market: Company Product Type Footprint

Table 25. Smart Textile Market: Company Product Application Footprint

Table 26. Smart Textile Competitive Factors

Table 27. Smart Textile New Entrant and Capacity Expansion Plans

Table 28. Smart Textile Mergers & Acquisitions Activity

Table 29. United States VS China Smart Textile Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Smart Textile Production Comparison, (2021 & 2025

& 2032) & (Units)

Table 31. United States VS China Smart Textile Consumption Comparison, (2021 & 2025 & 2032) & (Units)

Table 32. United States Based Smart Textile Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Smart Textile Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Smart Textile Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Smart Textile Production (2021-2026) & (Units)

Table 36. United States Based Manufacturers Smart Textile Production Market Share (2021-2026)

Table 37. China Based Smart Textile Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Smart Textile Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Smart Textile Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Smart Textile Production, (2021-2026) & (Units)

Table 41. China Based Manufacturers Smart Textile Production Market Share (2021-2026)

Table 42. Rest of World Based Smart Textile Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Smart Textile Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Smart Textile Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Smart Textile Production, (2021-2026) & (Units)

Table 46. Rest of World Based Manufacturers Smart Textile Production Market Share (2021-2026)

Table 47. World Smart Textile Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Smart Textile Production by Type (2021-2026) & (Units)

Table 49. World Smart Textile Production by Type (2027-2032) & (Units)

Table 50. World Smart Textile Production Value by Type (2021-2026) & (USD Million)

Table 51. World Smart Textile Production Value by Type (2027-2032) & (USD Million)

Table 52. World Smart Textile Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Smart Textile Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Smart Textile Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 55. World Smart Textile Production by Application (2021-2026) & (Units)

Table 56. World Smart Textile Production by Application (2027-2032) & (Units)

Table 57. World Smart Textile Production Value by Application (2021-2026) & (USD Million)

Table 58. World Smart Textile Production Value by Application (2027-2032) & (USD Million)

Table 59. World Smart Textile Average Price by Application (2021-2026) & (US\$/Unit)

Table 60. World Smart Textile Average Price by Application (2027-2032) & (US\$/Unit)

Table 61. Adidas Basic Information, Manufacturing Base and Competitors

Table 62. Adidas Major Business

Table 63. Adidas Smart Textile Product and Services

Table 64. Adidas Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Adidas Recent Developments/Updates

Table 66. Adidas Competitive Strengths & Weaknesses

Table 67. Under Armour Basic Information, Manufacturing Base and Competitors

Table 68. Under Armour Major Business

Table 69. Under Armour Smart Textile Product and Services

Table 70. Under Armour Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 71. Under Armour Recent Developments/Updates

Table 72. Under Armour Competitive Strengths & Weaknesses

Table 73. Jabil Basic Information, Manufacturing Base and Competitors

Table 74. Jabil Major Business

Table 75. Jabil Smart Textile Product and Services

Table 76. Jabil Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 77. Jabil Recent Developments/Updates

Table 78. Jabil Competitive Strengths & Weaknesses

Table 79. Toray Industries Basic Information, Manufacturing Base and Competitors

Table 80. Toray Industries Major Business

Table 81. Toray Industries Smart Textile Product and Services

Table 82. Toray Industries Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 83. Toray Industries Recent Developments/Updates

Table 84. Toray Industries Competitive Strengths & Weaknesses

- Table 85. Hexoskin Basic Information, Manufacturing Base and Competitors
- Table 86. Hexoskin Major Business
- Table 87. Hexoskin Smart Textile Product and Services
- Table 88. Hexoskin Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 89. Hexoskin Recent Developments/Updates
- Table 90. Hexoskin Competitive Strengths & Weaknesses
- Table 91. AiQ Smart Clothing Basic Information, Manufacturing Base and Competitors
- Table 92. AiQ Smart Clothing Major Business
- Table 93. AiQ Smart Clothing Smart Textile Product and Services
- Table 94. AiQ Smart Clothing Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 95. AiQ Smart Clothing Recent Developments/Updates
- Table 96. AiQ Smart Clothing Competitive Strengths & Weaknesses
- Table 97. Schoeller Textiles Basic Information, Manufacturing Base and Competitors
- Table 98. Schoeller Textiles Major Business
- Table 99. Schoeller Textiles Smart Textile Product and Services
- Table 100. Schoeller Textiles Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 101. Schoeller Textiles Recent Developments/Updates
- Table 102. Schoeller Textiles Competitive Strengths & Weaknesses
- Table 103. Sensoria Basic Information, Manufacturing Base and Competitors
- Table 104. Sensoria Major Business
- Table 105. Sensoria Smart Textile Product and Services
- Table 106. Sensoria Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 107. Sensoria Recent Developments/Updates
- Table 108. Sensoria Competitive Strengths & Weaknesses
- Table 109. Outlast Technologies Basic Information, Manufacturing Base and Competitors
- Table 110. Outlast Technologies Major Business
- Table 111. Outlast Technologies Smart Textile Product and Services
- Table 112. Outlast Technologies Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 113. Outlast Technologies Recent Developments/Updates
- Table 114. Outlast Technologies Competitive Strengths & Weaknesses
- Table 115. Myant Basic Information, Manufacturing Base and Competitors
- Table 116. Myant Major Business
- Table 117. Myant Smart Textile Product and Services

- Table 118. Myant Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 119. Myant Recent Developments/Updates
- Table 120. Myant Competitive Strengths & Weaknesses
- Table 121. Nyokas Technologies Basic Information, Manufacturing Base and Competitors
- Table 122. Nyokas Technologies Major Business
- Table 123. Nyokas Technologies Smart Textile Product and Services
- Table 124. Nyokas Technologies Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 125. Nyokas Technologies Recent Developments/Updates
- Table 126. Nyokas Technologies Competitive Strengths & Weaknesses
- Table 127. Eonyx Basic Information, Manufacturing Base and Competitors
- Table 128. Eonyx Major Business
- Table 129. Eonyx Smart Textile Product and Services
- Table 130. Eonyx Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 131. Eonyx Recent Developments/Updates
- Table 132. Eonyx Competitive Strengths & Weaknesses
- Table 133. Nextiles Basic Information, Manufacturing Base and Competitors
- Table 134. Nextiles Major Business
- Table 135. Nextiles Smart Textile Product and Services
- Table 136. Nextiles Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 137. Nextiles Recent Developments/Updates
- Table 138. Nextiles Competitive Strengths & Weaknesses
- Table 139. Xenoma Basic Information, Manufacturing Base and Competitors
- Table 140. Xenoma Major Business
- Table 141. Xenoma Smart Textile Product and Services
- Table 142. Xenoma Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 143. Xenoma Recent Developments/Updates
- Table 144. Xenoma Competitive Strengths & Weaknesses
- Table 145. Wearable X Basic Information, Manufacturing Base and Competitors
- Table 146. Wearable X Major Business
- Table 147. Wearable X Smart Textile Product and Services
- Table 148. Wearable X Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 149. Wearable X Recent Developments/Updates

- Table 150. Wearable X Competitive Strengths & Weaknesses
- Table 151. Myontec Basic Information, Manufacturing Base and Competitors
- Table 152. Myontec Major Business
- Table 153. Myontec Smart Textile Product and Services
- Table 154. Myontec Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 155. Myontec Recent Developments/Updates
- Table 156. Myontec Competitive Strengths & Weaknesses
- Table 157. Siren Basic Information, Manufacturing Base and Competitors
- Table 158. Siren Major Business
- Table 159. Siren Smart Textile Product and Services
- Table 160. Siren Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 161. Siren Recent Developments/Updates
- Table 162. Siren Competitive Strengths & Weaknesses
- Table 163. Athos Basic Information, Manufacturing Base and Competitors
- Table 164. Athos Major Business
- Table 165. Athos Smart Textile Product and Services
- Table 166. Athos Smart Textile Production (Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 167. Athos Recent Developments/Updates
- Table 168. Athos Competitive Strengths & Weaknesses
- Table 169. Global Key Players of Smart Textile Upstream (Raw Materials)
- Table 170. Global Smart Textile Typical Customers
- Table 171. Smart Textile Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Smart Textile Picture

Figure 2. World Smart Textile Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Smart Textile Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Smart Textile Production (2021-2032) & (Units)

Figure 5. World Smart Textile Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Smart Textile Production Value Market Share by Region (2021-2032)

Figure 7. World Smart Textile Production Market Share by Region (2021-2032)

Figure 8. North America Smart Textile Production (2021-2032) & (Units)

Figure 9. Europe Smart Textile Production (2021-2032) & (Units)

Figure 10. China Smart Textile Production (2021-2032) & (Units)

Figure 11. Japan Smart Textile Production (2021-2032) & (Units)

Figure 12. Southeast Asia Smart Textile Production (2021-2032) & (Units)

Figure 13. Smart Textile Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Smart Textile Consumption (2021-2032) & (Units)

Figure 16. World Smart Textile Consumption Market Share by Region (2021-2032)

Figure 17. United States Smart Textile Consumption (2021-2032) & (Units)

Figure 18. China Smart Textile Consumption (2021-2032) & (Units)

Figure 19. Europe Smart Textile Consumption (2021-2032) & (Units)

Figure 20. Japan Smart Textile Consumption (2021-2032) & (Units)

Figure 21. South Korea Smart Textile Consumption (2021-2032) & (Units)

Figure 22. ASEAN Smart Textile Consumption (2021-2032) & (Units)

Figure 23. India Smart Textile Consumption (2021-2032) & (Units)

Figure 24. Producer Shipments of Smart Textile by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Smart Textile Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Smart Textile Markets in 2025

Figure 27. United States VS China: Smart Textile Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Smart Textile Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Smart Textile Consumption Market Share

Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Smart Textile Production Market Share 2025

Figure 31. China Based Manufacturers Smart Textile Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Smart Textile Production Market Share 2025

Figure 33. World Smart Textile Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Smart Textile Production Value Market Share by Type in 2025

Figure 35. Passive Smart Textile

Figure 36. Active Smart Textile

Figure 37. Ultra-Smart Textile

Figure 38. World Smart Textile Production Market Share by Type (2021-2032)

Figure 39. World Smart Textile Production Value Market Share by Type (2021-2032)

Figure 40. World Smart Textile Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Smart Textile Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 42. World Smart Textile Production Value Market Share by Application in 2025

Figure 43. Architecture

Figure 44. Fashion and Entertainment

Figure 45. Medical

Figure 46. Defense and Military

Figure 47. Sports & Fitness

Figure 48. Transportation

Figure 49. World Smart Textile Production Market Share by Application (2021-2032)

Figure 50. World Smart Textile Production Value Market Share by Application (2021-2032)

Figure 51. World Smart Textile Average Price by Application (2021-2032) & (US\$/Unit)

Figure 52. Smart Textile Industry Chain

Figure 53. Smart Textile Procurement Model

Figure 54. Smart Textile Sales Model

Figure 55. Smart Textile Sales Channels, Direct Sales, and Distribution

Figure 56. Methodology

Figure 57. Research Process and Data Source

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