

Global Textile Strain Sensors Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Textile Strain Sensors market size is expected to reach \$ 2572 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

Textile strain sensors are smart sensors integrated into textile materials that detect strain by measuring changes in electrical parameters such as resistance, capacitance, or inductance. They monitor mechanical deformations of fabrics including stretching, bending, and compression, and are widely used in wearable devices, health monitoring, sports tracking, soft robotics, and human-machine interaction. In 2025, global textile strain sensor production reached approximately 5.9 million units, with an average global market price of around US\$ 150 per unit. Annual production capacity is 6.3 million units. Gross Profit Margin: 35%. The textile strain sensor industry chain is composed of upstream materials, midstream manufacturing, and downstream applications. Upstream includes conductive fibers (silver, copper, carbon-based), conductive polymers, and composite yarns, which determine sensor performance and cost. Midstream involves sensor integration into fabrics via knitting, weaving, coating, or embroidery techniques, and production of finished modules. Downstream covers wearable electronics, health monitoring garments, sports tracking devices, and soft robotics, where these sensors enable real-time motion and physiological data collection. Strong collaboration across all tiers is essential to optimize performance, durability, and scalability. Textile strain sensors represent a transformative niche in wearable electronics. With flexible, lightweight, and fabric-compatible designs, they allow seamless integration into daily life, from smart clothing to medical rehabilitation devices. The market growth is promising, but manufacturers must address challenges like washability, signal stability, and standardization. Investing in innovative materials, modular designs, and hybrid sensing methods will likely define the next generation of textile sensors and open opportunities for global adoption.

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

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

Highlights and key features of the study

Global Textile Strain Sensors total production and demand, 2021-2032, (K Units)

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

Global Textile Strain Sensors production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Textile Strain Sensors consumption by region & country, CAGR, 2021-2032 & (K Units)

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

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

Global Textile Strain Sensors production by Sensing Mechanism, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

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

This report profiles key players in the global Textile Strain Sensors 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 Texensor, Sensoria Inc., Textronics Inc., Wave Company, Ohmatex ApS, AiQ Smart Clothing Inc., Fibersensing, Sensitronics LLC, Interlink Electronics, Tekscan, 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 Textile Strain Sensors market

Detailed Segmentation:

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Textile Strain Sensors Market, Segmentation by Sensing Mechanism:

Resistive

Capacitive

Optical

Inductive

Piezoresistive / Thermal

Global Textile Strain Sensors Market, Segmentation by Material Type:

Carbon-based

Conductive Polymer

Metal Fiber

Conductive Coating

Composite Fiber

Global Textile Strain Sensors Market, Segmentation by Performance Level:

Low Sensitivity Sensors?Gauge Factor

Medium Sensitivity Sensors?Gauge Factor 10–50?

High Sensitivity Sensors?Gauge Factor > 50?

Others

Global Textile Strain Sensors Market, Segmentation by Application:

Consumer

Clinical

Rehabilitation

Others

Companies Profiled:

Texensor

Sensoria Inc.

Textronics Inc.

Wave Company

Ohmatex ApS

AiQ Smart Clothing Inc.

Fibersensing

Sensitronics LLC

Interlink Electronics

Tekscan

Vancera Technology

Aisiyi (Xiamen) Technology

Nanjing Shiheng Electronics

Anhui Zhimin Electrical Technology

Suzhou Nanomicro Technology

Shenzhen Innovand Systems

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Textile Strain Sensors Production Value by Manufacturer (2021-2026)
- 3.2 World Textile Strain Sensors Production by Manufacturer (2021-2026)
- 3.3 World Textile Strain Sensors Average Price by Manufacturer (2021-2026)
- 3.4 Textile Strain Sensors Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Textile Strain Sensors Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Textile Strain Sensors in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Textile Strain Sensors in 2025
- 3.6 Textile Strain Sensors Market: Overall Company Footprint Analysis
 - 3.6.1 Textile Strain Sensors Market: Region Footprint
 - 3.6.2 Textile Strain Sensors Market: Company Product Type Footprint
 - 3.6.3 Textile Strain Sensors 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: Textile Strain Sensors Production Value Comparison
 - 4.1.1 United States VS China: Textile Strain Sensors Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Textile Strain Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Textile Strain Sensors Production Comparison
 - 4.2.1 United States VS China: Textile Strain Sensors Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Textile Strain Sensors Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Textile Strain Sensors Consumption Comparison
 - 4.3.1 United States VS China: Textile Strain Sensors Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Textile Strain Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Textile Strain Sensors Manufacturers and Market Share,

2021-2026

4.4.1 United States Based Textile Strain Sensors Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Textile Strain Sensors Production Value (2021-2026)

4.4.3 United States Based Manufacturers Textile Strain Sensors Production (2021-2026)

4.5 China Based Textile Strain Sensors Manufacturers and Market Share

4.5.1 China Based Textile Strain Sensors Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Textile Strain Sensors Production Value (2021-2026)

4.5.3 China Based Manufacturers Textile Strain Sensors Production (2021-2026)

4.6 Rest of World Based Textile Strain Sensors Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Textile Strain Sensors Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Textile Strain Sensors Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Textile Strain Sensors Production (2021-2026)

5 MARKET ANALYSIS BY SENSING MECHANISM

5.1 World Textile Strain Sensors Market Size Overview by Sensing Mechanism: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Sensing Mechanism

5.2.1 Resistive

5.2.2 Capacitive

5.2.3 Optical

5.2.4 Inductive

5.2.5 Piezoresistive / Thermal

5.3 Market Segment by Sensing Mechanism

5.3.1 World Textile Strain Sensors Production by Sensing Mechanism (2021-2032)

5.3.2 World Textile Strain Sensors Production Value by Sensing Mechanism (2021-2032)

5.3.3 World Textile Strain Sensors Average Price by Sensing Mechanism (2021-2032)

6 MARKET ANALYSIS BY MATERIAL TYPE

6.1 World Textile Strain Sensors Market Size Overview by Material Type: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Material Type

- 6.2.1 Carbon-based
- 6.2.2 Conductive Polymer
- 6.2.3 Metal Fiber
- 6.2.4 Conductive Coating
- 6.2.5 Composite Fiber

6.3 Market Segment by Material Type

- 6.3.1 World Textile Strain Sensors Production by Material Type (2021-2032)
- 6.3.2 World Textile Strain Sensors Production Value by Material Type (2021-2032)
- 6.3.3 World Textile Strain Sensors Average Price by Material Type (2021-2032)

7 MARKET ANALYSIS BY PERFORMANCE LEVEL

7.1 World Textile Strain Sensors Market Size Overview by Performance Level: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Performance Level

- 7.2.1 Low Sensitivity Sensors?Gauge Factor 10–50?
- 7.2.2 Medium Sensitivity Sensors?Gauge Factor > 50?
- 7.2.3 High Sensitivity Sensors?Gauge Factor > 50?
- 7.2.4 Others

7.3 Market Segment by Performance Level

- 7.3.1 World Textile Strain Sensors Production by Performance Level (2021-2032)
- 7.3.2 World Textile Strain Sensors Production Value by Performance Level (2021-2032)
- 7.3.3 World Textile Strain Sensors Average Price by Performance Level (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Textile Strain Sensors Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Consumer
- 8.2.2 Clinical
- 8.2.3 Rehabilitation
- 8.2.4 Others

8.3 Market Segment by Application

- 8.3.1 World Textile Strain Sensors Production by Application (2021-2032)
- 8.3.2 World Textile Strain Sensors Production Value by Application (2021-2032)
- 8.3.3 World Textile Strain Sensors Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Texensor

- 9.1.1 Texensor Details
- 9.1.2 Texensor Major Business
- 9.1.3 Texensor Textile Strain Sensors Product and Services
- 9.1.4 Texensor Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Texensor Recent Developments/Updates
- 9.1.6 Texensor Competitive Strengths & Weaknesses

9.2 Sensoria Inc.

- 9.2.1 Sensoria Inc. Details
- 9.2.2 Sensoria Inc. Major Business
- 9.2.3 Sensoria Inc. Textile Strain Sensors Product and Services
- 9.2.4 Sensoria Inc. Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.2.5 Sensoria Inc. Recent Developments/Updates
- 9.2.6 Sensoria Inc. Competitive Strengths & Weaknesses

9.3 Textronics Inc.

- 9.3.1 Textronics Inc. Details
- 9.3.2 Textronics Inc. Major Business
- 9.3.3 Textronics Inc. Textile Strain Sensors Product and Services
- 9.3.4 Textronics Inc. Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.3.5 Textronics Inc. Recent Developments/Updates
- 9.3.6 Textronics Inc. Competitive Strengths & Weaknesses

9.4 Wave Company

- 9.4.1 Wave Company Details
- 9.4.2 Wave Company Major Business
- 9.4.3 Wave Company Textile Strain Sensors Product and Services
- 9.4.4 Wave Company Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Wave Company Recent Developments/Updates
- 9.4.6 Wave Company Competitive Strengths & Weaknesses

9.5 Ohmatex ApS

- 9.5.1 Ohmatex ApS Details
- 9.5.2 Ohmatex ApS Major Business
- 9.5.3 Ohmatex ApS Textile Strain Sensors Product and Services
- 9.5.4 Ohmatex ApS Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.5.5 Ohmatex ApS Recent Developments/Updates
- 9.5.6 Ohmatex ApS Competitive Strengths & Weaknesses
- 9.6 AiQ Smart Clothing Inc.
 - 9.6.1 AiQ Smart Clothing Inc. Details
 - 9.6.2 AiQ Smart Clothing Inc. Major Business
 - 9.6.3 AiQ Smart Clothing Inc. Textile Strain Sensors Product and Services
 - 9.6.4 AiQ Smart Clothing Inc. Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 AiQ Smart Clothing Inc. Recent Developments/Updates
 - 9.6.6 AiQ Smart Clothing Inc. Competitive Strengths & Weaknesses
- 9.7 Fibersensing
 - 9.7.1 Fibersensing Details
 - 9.7.2 Fibersensing Major Business
 - 9.7.3 Fibersensing Textile Strain Sensors Product and Services
 - 9.7.4 Fibersensing Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Fibersensing Recent Developments/Updates
 - 9.7.6 Fibersensing Competitive Strengths & Weaknesses
- 9.8 Sensitronics LLC
 - 9.8.1 Sensitronics LLC Details
 - 9.8.2 Sensitronics LLC Major Business
 - 9.8.3 Sensitronics LLC Textile Strain Sensors Product and Services
 - 9.8.4 Sensitronics LLC Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Sensitronics LLC Recent Developments/Updates
 - 9.8.6 Sensitronics LLC Competitive Strengths & Weaknesses
- 9.9 Interlink Electronics
 - 9.9.1 Interlink Electronics Details
 - 9.9.2 Interlink Electronics Major Business
 - 9.9.3 Interlink Electronics Textile Strain Sensors Product and Services
 - 9.9.4 Interlink Electronics Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Interlink Electronics Recent Developments/Updates
 - 9.9.6 Interlink Electronics Competitive Strengths & Weaknesses

9.10 Tekscan

9.10.1 Tekscan Details

9.10.2 Tekscan Major Business

9.10.3 Tekscan Textile Strain Sensors Product and Services

9.10.4 Tekscan Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Tekscan Recent Developments/Updates

9.10.6 Tekscan Competitive Strengths & Weaknesses

9.11 Vancera Technology

9.11.1 Vancera Technology Details

9.11.2 Vancera Technology Major Business

9.11.3 Vancera Technology Textile Strain Sensors Product and Services

9.11.4 Vancera Technology Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Vancera Technology Recent Developments/Updates

9.11.6 Vancera Technology Competitive Strengths & Weaknesses

9.12 Aisiyi (Xiamen) Technology

9.12.1 Aisiyi (Xiamen) Technology Details

9.12.2 Aisiyi (Xiamen) Technology Major Business

9.12.3 Aisiyi (Xiamen) Technology Textile Strain Sensors Product and Services

9.12.4 Aisiyi (Xiamen) Technology Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Aisiyi (Xiamen) Technology Recent Developments/Updates

9.12.6 Aisiyi (Xiamen) Technology Competitive Strengths & Weaknesses

9.13 Nanjing Shiheng Electronics

9.13.1 Nanjing Shiheng Electronics Details

9.13.2 Nanjing Shiheng Electronics Major Business

9.13.3 Nanjing Shiheng Electronics Textile Strain Sensors Product and Services

9.13.4 Nanjing Shiheng Electronics Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Nanjing Shiheng Electronics Recent Developments/Updates

9.13.6 Nanjing Shiheng Electronics Competitive Strengths & Weaknesses

9.14 Anhui Zhimin Electrical Technology

9.14.1 Anhui Zhimin Electrical Technology Details

9.14.2 Anhui Zhimin Electrical Technology Major Business

9.14.3 Anhui Zhimin Electrical Technology Textile Strain Sensors Product and Services

9.14.4 Anhui Zhimin Electrical Technology Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.14.5 Anhui Zhimin Electrical Technology Recent Developments/Updates
- 9.14.6 Anhui Zhimin Electrical Technology Competitive Strengths & Weaknesses
- 9.15 Suzhou Nanomicro Technology
 - 9.15.1 Suzhou Nanomicro Technology Details
 - 9.15.2 Suzhou Nanomicro Technology Major Business
 - 9.15.3 Suzhou Nanomicro Technology Textile Strain Sensors Product and Services
 - 9.15.4 Suzhou Nanomicro Technology Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 Suzhou Nanomicro Technology Recent Developments/Updates
 - 9.15.6 Suzhou Nanomicro Technology Competitive Strengths & Weaknesses
- 9.16 Shenzhen Innovand Systems
 - 9.16.1 Shenzhen Innovand Systems Details
 - 9.16.2 Shenzhen Innovand Systems Major Business
 - 9.16.3 Shenzhen Innovand Systems Textile Strain Sensors Product and Services
 - 9.16.4 Shenzhen Innovand Systems Textile Strain Sensors Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.16.5 Shenzhen Innovand Systems Recent Developments/Updates
 - 9.16.6 Shenzhen Innovand Systems Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Textile Strain Sensors Industry Chain
- 10.2 Textile Strain Sensors Upstream Analysis
 - 10.2.1 Textile Strain Sensors Core Raw Materials
 - 10.2.2 Main Manufacturers of Textile Strain Sensors Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Textile Strain Sensors Production Mode
- 10.6 Textile Strain Sensors Procurement Model
- 10.7 Textile Strain Sensors Industry Sales Model and Sales Channels
 - 10.7.1 Textile Strain Sensors Sales Model
 - 10.7.2 Textile Strain Sensors Typical Distributors

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 Textile Strain Sensors Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

Table 6. World Textile Strain Sensors Production by Region (2021-2026) & (K Units)

Table 7. World Textile Strain Sensors Production by Region (2027-2032) & (K Units)

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

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

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

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

Table 12. Textile Strain Sensors Major Market Trends

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

Table 14. World Textile Strain Sensors Consumption by Region (2021-2026) & (K Units)

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

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

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

Table 18. World Textile Strain Sensors Production by Manufacturer (2021-2026) & (K Units)

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

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

Table 21. Global Textile Strain Sensors Company Evaluation Quadrant

Table 22. World Textile Strain Sensors Industry Rank of Major Manufacturers, Based on

Production Value in 2025

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

Table 24. Textile Strain Sensors Market: Company Product Type Footprint

Table 25. Textile Strain Sensors Market: Company Product Application Footprint

Table 26. Textile Strain Sensors Competitive Factors

Table 27. Textile Strain Sensors New Entrant and Capacity Expansion Plans

Table 28. Textile Strain Sensors Mergers & Acquisitions Activity

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

Table 30. United States VS China Textile Strain Sensors Production Comparison, (2021 & 2025 & 2032) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Table 47. World Textile Strain Sensors Production Value by Sensing Mechanism, (USD Million), 2021 & 2025 & 2032

Table 48. World Textile Strain Sensors Production by Sensing Mechanism (2021-2026) & (K Units)

Table 49. World Textile Strain Sensors Production by Sensing Mechanism (2027-2032) & (K Units)

Table 50. World Textile Strain Sensors Production Value by Sensing Mechanism (2021-2026) & (USD Million)

Table 51. World Textile Strain Sensors Production Value by Sensing Mechanism (2027-2032) & (USD Million)

Table 52. World Textile Strain Sensors Average Price by Sensing Mechanism (2021-2026) & (US\$/Unit)

Table 53. World Textile Strain Sensors Average Price by Sensing Mechanism (2027-2032) & (US\$/Unit)

Table 54. World Textile Strain Sensors Production Value by Material Type, (USD Million), 2021 & 2025 & 2032

Table 55. World Textile Strain Sensors Production by Material Type (2021-2026) & (K Units)

Table 56. World Textile Strain Sensors Production by Material Type (2027-2032) & (K Units)

Table 57. World Textile Strain Sensors Production Value by Material Type (2021-2026) & (USD Million)

Table 58. World Textile Strain Sensors Production Value by Material Type (2027-2032) & (USD Million)

Table 59. World Textile Strain Sensors Average Price by Material Type (2021-2026) & (US\$/Unit)

Table 60. World Textile Strain Sensors Average Price by Material Type (2027-2032) & (US\$/Unit)

Table 61. World Textile Strain Sensors Production Value by Performance Level, (USD Million), 2021 & 2025 & 2032

Table 62. World Textile Strain Sensors Production by Performance Level (2021-2026) & (K Units)

Table 63. World Textile Strain Sensors Production by Performance Level (2027-2032) & (K Units)

Table 64. World Textile Strain Sensors Production Value by Performance Level

(2021-2026) & (USD Million)

Table 65. World Textile Strain Sensors Production Value by Performance Level

(2027-2032) & (USD Million)

Table 66. World Textile Strain Sensors Average Price by Performance Level

(2021-2026) & (US\$/Unit)

Table 67. World Textile Strain Sensors Average Price by Performance Level

(2027-2032) & (US\$/Unit)

Table 68. World Textile Strain Sensors Production Value by Application, (USD Million),
2021 & 2025 & 2032

Table 69. World Textile Strain Sensors Production by Application (2021-2026) & (K
Units)

Table 70. World Textile Strain Sensors Production by Application (2027-2032) & (K
Units)

Table 71. World Textile Strain Sensors Production Value by Application (2021-2026) &
(USD Million)

Table 72. World Textile Strain Sensors Production Value by Application (2027-2032) &
(USD Million)

Table 73. World Textile Strain Sensors Average Price by Application (2021-2026) &
(US\$/Unit)

Table 74. World Textile Strain Sensors Average Price by Application (2027-2032) &
(US\$/Unit)

Table 75. Texensor Basic Information, Manufacturing Base and Competitors

Table 76. Texensor Major Business

Table 77. Texensor Textile Strain Sensors Product and Services

Table 78. Texensor Textile Strain Sensors Production (K Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Texensor Recent Developments/Updates

Table 80. Texensor Competitive Strengths & Weaknesses

Table 81. Sensoria Inc. Basic Information, Manufacturing Base and Competitors

Table 82. Sensoria Inc. Major Business

Table 83. Sensoria Inc. Textile Strain Sensors Product and Services

Table 84. Sensoria Inc. Textile Strain Sensors Production (K Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Sensoria Inc. Recent Developments/Updates

Table 86. Sensoria Inc. Competitive Strengths & Weaknesses

Table 87. Textronics Inc. Basic Information, Manufacturing Base and Competitors

Table 88. Textronics Inc. Major Business

Table 89. Textronics Inc. Textile Strain Sensors Product and Services

Table 90. Textronics Inc. Textile Strain Sensors Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Textronics Inc. Recent Developments/Updates

Table 92. Textronics Inc. Competitive Strengths & Weaknesses

Table 93. Wave Company Basic Information, Manufacturing Base and Competitors

Table 94. Wave Company Major Business

Table 95. Wave Company Textile Strain Sensors Product and Services

Table 96. Wave Company Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Wave Company Recent Developments/Updates

Table 98. Wave Company Competitive Strengths & Weaknesses

Table 99. Ohmatex ApS Basic Information, Manufacturing Base and Competitors

Table 100. Ohmatex ApS Major Business

Table 101. Ohmatex ApS Textile Strain Sensors Product and Services

Table 102. Ohmatex ApS Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Ohmatex ApS Recent Developments/Updates

Table 104. Ohmatex ApS Competitive Strengths & Weaknesses

Table 105. AiQ Smart Clothing Inc. Basic Information, Manufacturing Base and Competitors

Table 106. AiQ Smart Clothing Inc. Major Business

Table 107. AiQ Smart Clothing Inc. Textile Strain Sensors Product and Services

Table 108. AiQ Smart Clothing Inc. Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. AiQ Smart Clothing Inc. Recent Developments/Updates

Table 110. AiQ Smart Clothing Inc. Competitive Strengths & Weaknesses

Table 111. Fibersensing Basic Information, Manufacturing Base and Competitors

Table 112. Fibersensing Major Business

Table 113. Fibersensing Textile Strain Sensors Product and Services

Table 114. Fibersensing Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Fibersensing Recent Developments/Updates

Table 116. Fibersensing Competitive Strengths & Weaknesses

Table 117. Sensitronics LLC Basic Information, Manufacturing Base and Competitors

Table 118. Sensitronics LLC Major Business

Table 119. Sensitronics LLC Textile Strain Sensors Product and Services

Table 120. Sensitronics LLC Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 121. Sensitronics LLC Recent Developments/Updates
- Table 122. Sensitronics LLC Competitive Strengths & Weaknesses
- Table 123. Interlink Electronics Basic Information, Manufacturing Base and Competitors
- Table 124. Interlink Electronics Major Business
- Table 125. Interlink Electronics Textile Strain Sensors Product and Services
- Table 126. Interlink Electronics Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Interlink Electronics Recent Developments/Updates
- Table 128. Interlink Electronics Competitive Strengths & Weaknesses
- Table 129. Tekscan Basic Information, Manufacturing Base and Competitors
- Table 130. Tekscan Major Business
- Table 131. Tekscan Textile Strain Sensors Product and Services
- Table 132. Tekscan Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Tekscan Recent Developments/Updates
- Table 134. Tekscan Competitive Strengths & Weaknesses
- Table 135. Vancera Technology Basic Information, Manufacturing Base and Competitors
- Table 136. Vancera Technology Major Business
- Table 137. Vancera Technology Textile Strain Sensors Product and Services
- Table 138. Vancera Technology Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Vancera Technology Recent Developments/Updates
- Table 140. Vancera Technology Competitive Strengths & Weaknesses
- Table 141. Aisiyi (Xiamen) Technology Basic Information, Manufacturing Base and Competitors
- Table 142. Aisiyi (Xiamen) Technology Major Business
- Table 143. Aisiyi (Xiamen) Technology Textile Strain Sensors Product and Services
- Table 144. Aisiyi (Xiamen) Technology Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Aisiyi (Xiamen) Technology Recent Developments/Updates
- Table 146. Aisiyi (Xiamen) Technology Competitive Strengths & Weaknesses
- Table 147. Nanjing Shiheng Electronics Basic Information, Manufacturing Base and Competitors
- Table 148. Nanjing Shiheng Electronics Major Business
- Table 149. Nanjing Shiheng Electronics Textile Strain Sensors Product and Services

Table 150. Nanjing Shiheng Electronics Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Nanjing Shiheng Electronics Recent Developments/Updates

Table 152. Nanjing Shiheng Electronics Competitive Strengths & Weaknesses

Table 153. Anhui Zhimin Electrical Technology Basic Information, Manufacturing Base and Competitors

Table 154. Anhui Zhimin Electrical Technology Major Business

Table 155. Anhui Zhimin Electrical Technology Textile Strain Sensors Product and Services

Table 156. Anhui Zhimin Electrical Technology Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Anhui Zhimin Electrical Technology Recent Developments/Updates

Table 158. Anhui Zhimin Electrical Technology Competitive Strengths & Weaknesses

Table 159. Suzhou Nanomicro Technology Basic Information, Manufacturing Base and Competitors

Table 160. Suzhou Nanomicro Technology Major Business

Table 161. Suzhou Nanomicro Technology Textile Strain Sensors Product and Services

Table 162. Suzhou Nanomicro Technology Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Suzhou Nanomicro Technology Recent Developments/Updates

Table 164. Suzhou Nanomicro Technology Competitive Strengths & Weaknesses

Table 165. Shenzhen Innovand Systems Basic Information, Manufacturing Base and Competitors

Table 166. Shenzhen Innovand Systems Major Business

Table 167. Shenzhen Innovand Systems Textile Strain Sensors Product and Services

Table 168. Shenzhen Innovand Systems Textile Strain Sensors Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Shenzhen Innovand Systems Recent Developments/Updates

Table 170. Shenzhen Innovand Systems Competitive Strengths & Weaknesses

Table 171. Global Key Players of Textile Strain Sensors Upstream (Raw Materials)

Table 172. Global Textile Strain Sensors Typical Customers

Table 173. Textile Strain Sensors Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Textile Strain Sensors Picture

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

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

Figure 4. World Textile Strain Sensors Production (2021-2032) & (K Units)

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

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

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

Figure 8. North America Textile Strain Sensors Production (2021-2032) & (K Units)

Figure 9. Europe Textile Strain Sensors Production (2021-2032) & (K Units)

Figure 10. China Textile Strain Sensors Production (2021-2032) & (K Units)

Figure 11. Japan Textile Strain Sensors Production (2021-2032) & (K Units)

Figure 12. South Korea Textile Strain Sensors Production (2021-2032) & (K Units)

Figure 13. Southeast Asia Textile Strain Sensors Production (2021-2032) & (K Units)

Figure 14. China Taiwan Textile Strain Sensors Production (2021-2032) & (K Units)

Figure 15. Textile Strain Sensors Market Drivers

Figure 16. Factors Affecting Demand

Figure 17. World Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 18. World Textile Strain Sensors Consumption Market Share by Region (2021-2032)

Figure 19. United States Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 20. China Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 21. Europe Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 22. Japan Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 23. South Korea Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 24. ASEAN Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 25. India Textile Strain Sensors Consumption (2021-2032) & (K Units)

Figure 26. Producer Shipments of Textile Strain Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 27. Global Four-firm Concentration Ratios (CR4) for Textile Strain Sensors Markets in 2025

Figure 28. Global Four-firm Concentration Ratios (CR8) for Textile Strain Sensors Markets in 2025

Figure 29. United States VS China: Textile Strain Sensors Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Textile Strain Sensors Production Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States VS China: Textile Strain Sensors Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 32. United States Based Manufacturers Textile Strain Sensors Production Market Share 2025

Figure 33. China Based Manufacturers Textile Strain Sensors Production Market Share 2025

Figure 34. Rest of World Based Manufacturers Textile Strain Sensors Production Market Share 2025

Figure 35. World Textile Strain Sensors Production Value by Sensing Mechanism, (USD Million), 2021 & 2025 & 2032

Figure 36. World Textile Strain Sensors Production Value Market Share by Sensing Mechanism in 2025

Figure 37. Resistive

Figure 38. Capacitive

Figure 39. Optical

Figure 40. Inductive

Figure 41. Piezoresistive / Thermal

Figure 42. World Textile Strain Sensors Production Market Share by Sensing Mechanism (2021-2032)

Figure 43. World Textile Strain Sensors Production Value Market Share by Sensing Mechanism (2021-2032)

Figure 44. World Textile Strain Sensors Average Price by Sensing Mechanism (2021-2032) & (US\$/Unit)

Figure 45. World Textile Strain Sensors Production Value by Material Type, (USD Million), 2021 & 2025 & 2032

Figure 46. World Textile Strain Sensors Production Value Market Share by Material Type in 2025

Figure 47. Carbon-based

Figure 48. Conductive Polymer

Figure 49. Metal Fiber

Figure 50. Conductive Coating

Figure 51. Composite Fiber

Figure 52. World Textile Strain Sensors Production Market Share by Material Type (2021-2032)

Figure 53. World Textile Strain Sensors Production Value Market Share by Material

Type (2021-2032)

Figure 54. World Textile Strain Sensors Average Price by Material Type (2021-2032) & (US\$/Unit)

Figure 55. World Textile Strain Sensors Production Value by Performance Level, (USD Million), 2021 & 2025 & 2032

Figure 56. World Textile Strain Sensors Production Value Market Share by Performance Level in 2025

Figure 57. Low Sensitivity Sensors?Gauge Factor Figure 58. Medium Sensitivity Sensors?Gauge Factor 10–50?

Figure 59. High Sensitivity Sensors?Gauge Factor > 50?

Figure 60. Others

Figure 61. World Textile Strain Sensors Production Market Share by Performance Level (2021-2032)

Figure 62. World Textile Strain Sensors Production Value Market Share by Performance Level (2021-2032)

Figure 63. World Textile Strain Sensors Average Price by Performance Level (2021-2032) & (US\$/Unit)

Figure 64. World Textile Strain Sensors Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 65. World Textile Strain Sensors Production Value Market Share by Application in 2025

Figure 66. Consumer

Figure 67. Clinical

Figure 68. Rehabilitation

Figure 69. Others

Figure 70. World Textile Strain Sensors Production Market Share by Application (2021-2032)

Figure 71. World Textile Strain Sensors Production Value Market Share by Application (2021-2032)

Figure 72. World Textile Strain Sensors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 73. Textile Strain Sensors Industry Chain

Figure 74. Textile Strain Sensors Procurement Model

Figure 75. Textile Strain Sensors Sales Model

Figure 76. Textile Strain Sensors Sales Channels, Direct Sales, and Distribution

Figure 77. Methodology

Figure 78. Research Process and Data Source

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