

# Global Textile Strain Sensors Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Textile Strain Sensors market size was valued at US\$ 911 million in 2025 and is forecast to a readjusted size of US\$ 2572 million by 2032 with a CAGR of 14.6% during review period.

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 is a detailed and comprehensive analysis for global Textile Strain Sensors market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Sensing Mechanism and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

#### Key Features:

Global Textile Strain Sensors market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Textile Strain Sensors market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Textile Strain Sensors market size and forecasts, by Sensing Mechanism and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global Textile Strain Sensors market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2021-2026

#### The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Textile Strain Sensors
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Textile Strain Sensors market based on the

following parameters - company overview, sales quantity, revenue, 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.

## Market Segmentation

Textile Strain Sensors market is split by Sensing Mechanism and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Sensing Mechanism, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### Market segment by Sensing Mechanism

Resistive

Capacitive

Optical

Inductive

Piezoresistive / Thermal

### Market segment by Material Type

Carbon-based

Conductive Polymer

Metal Fiber

Conductive Coating

Composite Fiber

#### Market segment by Performance Level

Low Sensitivity Sensors?Gauge Factor

Medium Sensitivity Sensors?Gauge Factor 10–50?

High Sensitivity Sensors?Gauge Factor > 50?

Others

#### Market segment by Application

Consumer

Clinical

Rehabilitation

Others

#### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Textile Strain Sensors product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Textile Strain Sensors, with price, sales quantity, revenue, and global market share of Textile Strain Sensors from 2021 to 2026.

Chapter 3, the Textile Strain Sensors competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Textile Strain Sensors breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Sensing Mechanism and by Application, with sales market share and growth rate by Sensing Mechanism, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Textile Strain Sensors market forecast, by regions, by Sensing Mechanism, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Textile Strain Sensors.

Chapter 14 and 15, to describe Textile Strain Sensors sales channel, distributors, customers, research findings and conclusion.

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Sensing Mechanism

1.3.1 Overview: Global Textile Strain Sensors Consumption Value by Sensing Mechanism: 2021 Versus 2025 Versus 2032

1.3.2 Resistive

1.3.3 Capacitive

1.3.4 Optical

1.3.5 Inductive

1.3.6 Piezoresistive / Thermal

1.4 Market Analysis by Material Type

1.4.1 Overview: Global Textile Strain Sensors Consumption Value by Material Type: 2021 Versus 2025 Versus 2032

1.4.2 Carbon-based

1.4.3 Conductive Polymer

1.4.4 Metal Fiber

1.4.5 Conductive Coating

1.4.6 Composite Fiber

1.5 Market Analysis by Performance Level

1.5.1 Overview: Global Textile Strain Sensors Consumption Value by Performance Level: 2021 Versus 2025 Versus 2032

1.5.2 Low Sensitivity Sensors?Gauge Factor 10–50? 1.5.3 Medium Sensitivity Sensors?Gauge Factor 10–50?

1.5.4 High Sensitivity Sensors?Gauge Factor > 50?

1.5.5 Others

1.6 Market Analysis by Application

1.6.1 Overview: Global Textile Strain Sensors Consumption Value by Application: 2021 Versus 2025 Versus 2032

1.6.2 Consumer

1.6.3 Clinical

1.6.4 Rehabilitation

1.6.5 Others

1.7 Global Textile Strain Sensors Market Size & Forecast

1.7.1 Global Textile Strain Sensors Consumption Value (2021 & 2025 & 2032)

1.7.2 Global Textile Strain Sensors Sales Quantity (2021-2032)

### 1.7.3 Global Textile Strain Sensors Average Price (2021-2032)

## 2 MANUFACTURERS PROFILES

### 2.1 Texensor

#### 2.1.1 Texensor Details

#### 2.1.2 Texensor Major Business

#### 2.1.3 Texensor Textile Strain Sensors Product and Services

#### 2.1.4 Texensor Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.1.5 Texensor Recent Developments/Updates

### 2.2 Sensoria Inc.

#### 2.2.1 Sensoria Inc. Details

#### 2.2.2 Sensoria Inc. Major Business

#### 2.2.3 Sensoria Inc. Textile Strain Sensors Product and Services

#### 2.2.4 Sensoria Inc. Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.2.5 Sensoria Inc. Recent Developments/Updates

### 2.3 Textronics Inc.

#### 2.3.1 Textronics Inc. Details

#### 2.3.2 Textronics Inc. Major Business

#### 2.3.3 Textronics Inc. Textile Strain Sensors Product and Services

#### 2.3.4 Textronics Inc. Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.3.5 Textronics Inc. Recent Developments/Updates

### 2.4 Wave Company

#### 2.4.1 Wave Company Details

#### 2.4.2 Wave Company Major Business

#### 2.4.3 Wave Company Textile Strain Sensors Product and Services

#### 2.4.4 Wave Company Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.4.5 Wave Company Recent Developments/Updates

### 2.5 Ohmatex ApS

#### 2.5.1 Ohmatex ApS Details

#### 2.5.2 Ohmatex ApS Major Business

#### 2.5.3 Ohmatex ApS Textile Strain Sensors Product and Services

#### 2.5.4 Ohmatex ApS Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

#### 2.5.5 Ohmatex ApS Recent Developments/Updates

## 2.6 AiQ Smart Clothing Inc.

2.6.1 AiQ Smart Clothing Inc. Details

2.6.2 AiQ Smart Clothing Inc. Major Business

2.6.3 AiQ Smart Clothing Inc. Textile Strain Sensors Product and Services

2.6.4 AiQ Smart Clothing Inc. Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.6.5 AiQ Smart Clothing Inc. Recent Developments/Updates

## 2.7 Fibersensing

2.7.1 Fibersensing Details

2.7.2 Fibersensing Major Business

2.7.3 Fibersensing Textile Strain Sensors Product and Services

2.7.4 Fibersensing Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.7.5 Fibersensing Recent Developments/Updates

## 2.8 Sensitronics LLC

2.8.1 Sensitronics LLC Details

2.8.2 Sensitronics LLC Major Business

2.8.3 Sensitronics LLC Textile Strain Sensors Product and Services

2.8.4 Sensitronics LLC Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.8.5 Sensitronics LLC Recent Developments/Updates

## 2.9 Interlink Electronics

2.9.1 Interlink Electronics Details

2.9.2 Interlink Electronics Major Business

2.9.3 Interlink Electronics Textile Strain Sensors Product and Services

2.9.4 Interlink Electronics Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.9.5 Interlink Electronics Recent Developments/Updates

## 2.10 Tekscan

2.10.1 Tekscan Details

2.10.2 Tekscan Major Business

2.10.3 Tekscan Textile Strain Sensors Product and Services

2.10.4 Tekscan Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.10.5 Tekscan Recent Developments/Updates

## 2.11 Vancera Technology

2.11.1 Vancera Technology Details

2.11.2 Vancera Technology Major Business

2.11.3 Vancera Technology Textile Strain Sensors Product and Services

2.11.4 Vancera Technology Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.11.5 Vancera Technology Recent Developments/Updates

2.12 Aisiyi (Xiamen) Technology

2.12.1 Aisiyi (Xiamen) Technology Details

2.12.2 Aisiyi (Xiamen) Technology Major Business

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

2.12.4 Aisiyi (Xiamen) Technology Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.12.5 Aisiyi (Xiamen) Technology Recent Developments/Updates

2.13 Nanjing Shiheng Electronics

2.13.1 Nanjing Shiheng Electronics Details

2.13.2 Nanjing Shiheng Electronics Major Business

2.13.3 Nanjing Shiheng Electronics Textile Strain Sensors Product and Services

2.13.4 Nanjing Shiheng Electronics Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.13.5 Nanjing Shiheng Electronics Recent Developments/Updates

2.14 Anhui Zhimin Electrical Technology

2.14.1 Anhui Zhimin Electrical Technology Details

2.14.2 Anhui Zhimin Electrical Technology Major Business

2.14.3 Anhui Zhimin Electrical Technology Textile Strain Sensors Product and Services

2.14.4 Anhui Zhimin Electrical Technology Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.14.5 Anhui Zhimin Electrical Technology Recent Developments/Updates

2.15 Suzhou Nanomicro Technology

2.15.1 Suzhou Nanomicro Technology Details

2.15.2 Suzhou Nanomicro Technology Major Business

2.15.3 Suzhou Nanomicro Technology Textile Strain Sensors Product and Services

2.15.4 Suzhou Nanomicro Technology Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.15.5 Suzhou Nanomicro Technology Recent Developments/Updates

2.16 Shenzhen Innovand Systems

2.16.1 Shenzhen Innovand Systems Details

2.16.2 Shenzhen Innovand Systems Major Business

2.16.3 Shenzhen Innovand Systems Textile Strain Sensors Product and Services

2.16.4 Shenzhen Innovand Systems Textile Strain Sensors Sales Quantity, Average Price, Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Shenzhen Innovand Systems Recent Developments/Updates

### **3 COMPETITIVE ENVIRONMENT: TEXTILE STRAIN SENSORS BY MANUFACTURER**

- 3.1 Global Textile Strain Sensors Sales Quantity by Manufacturer (2021-2026)
- 3.2 Global Textile Strain Sensors Revenue by Manufacturer (2021-2026)
- 3.3 Global Textile Strain Sensors Average Price by Manufacturer (2021-2026)
- 3.4 Market Share Analysis (2025)
  - 3.4.1 Producer Shipments of Textile Strain Sensors by Manufacturer Revenue (\$MM) and Market Share (%): 2025
  - 3.4.2 Top 3 Textile Strain Sensors Manufacturer Market Share in 2025
  - 3.4.3 Top 6 Textile Strain Sensors Manufacturer Market Share in 2025
- 3.5 Textile Strain Sensors Market: Overall Company Footprint Analysis
  - 3.5.1 Textile Strain Sensors Market: Region Footprint
  - 3.5.2 Textile Strain Sensors Market: Company Product Type Footprint
  - 3.5.3 Textile Strain Sensors Market: Company Product Application Footprint
- 3.6 New Market Entrants and Barriers to Market Entry
- 3.7 Mergers, Acquisition, Agreements, and Collaborations

### **4 CONSUMPTION ANALYSIS BY REGION**

- 4.1 Global Textile Strain Sensors Market Size by Region
  - 4.1.1 Global Textile Strain Sensors Sales Quantity by Region (2021-2032)
  - 4.1.2 Global Textile Strain Sensors Consumption Value by Region (2021-2032)
  - 4.1.3 Global Textile Strain Sensors Average Price by Region (2021-2032)
- 4.2 North America Textile Strain Sensors Consumption Value (2021-2032)
- 4.3 Europe Textile Strain Sensors Consumption Value (2021-2032)
- 4.4 Asia-Pacific Textile Strain Sensors Consumption Value (2021-2032)
- 4.5 South America Textile Strain Sensors Consumption Value (2021-2032)
- 4.6 Middle East & Africa Textile Strain Sensors Consumption Value (2021-2032)

### **5 MARKET SEGMENT BY SENSING MECHANISM**

- 5.1 Global Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2032)
- 5.2 Global Textile Strain Sensors Consumption Value by Sensing Mechanism (2021-2032)
- 5.3 Global Textile Strain Sensors Average Price by Sensing Mechanism (2021-2032)

### **6 MARKET SEGMENT BY APPLICATION**

- 6.1 Global Textile Strain Sensors Sales Quantity by Application (2021-2032)
- 6.2 Global Textile Strain Sensors Consumption Value by Application (2021-2032)
- 6.3 Global Textile Strain Sensors Average Price by Application (2021-2032)

## **7 NORTH AMERICA**

- 7.1 North America Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2032)
- 7.2 North America Textile Strain Sensors Sales Quantity by Application (2021-2032)
- 7.3 North America Textile Strain Sensors Market Size by Country
  - 7.3.1 North America Textile Strain Sensors Sales Quantity by Country (2021-2032)
  - 7.3.2 North America Textile Strain Sensors Consumption Value by Country (2021-2032)
  - 7.3.3 United States Market Size and Forecast (2021-2032)
  - 7.3.4 Canada Market Size and Forecast (2021-2032)
  - 7.3.5 Mexico Market Size and Forecast (2021-2032)

## **8 EUROPE**

- 8.1 Europe Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2032)
- 8.2 Europe Textile Strain Sensors Sales Quantity by Application (2021-2032)
- 8.3 Europe Textile Strain Sensors Market Size by Country
  - 8.3.1 Europe Textile Strain Sensors Sales Quantity by Country (2021-2032)
  - 8.3.2 Europe Textile Strain Sensors Consumption Value by Country (2021-2032)
  - 8.3.3 Germany Market Size and Forecast (2021-2032)
  - 8.3.4 France Market Size and Forecast (2021-2032)
  - 8.3.5 United Kingdom Market Size and Forecast (2021-2032)
  - 8.3.6 Russia Market Size and Forecast (2021-2032)
  - 8.3.7 Italy Market Size and Forecast (2021-2032)

## **9 ASIA-PACIFIC**

- 9.1 Asia-Pacific Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2032)
- 9.2 Asia-Pacific Textile Strain Sensors Sales Quantity by Application (2021-2032)
- 9.3 Asia-Pacific Textile Strain Sensors Market Size by Region
  - 9.3.1 Asia-Pacific Textile Strain Sensors Sales Quantity by Region (2021-2032)
  - 9.3.2 Asia-Pacific Textile Strain Sensors Consumption Value by Region (2021-2032)

- 9.3.3 China Market Size and Forecast (2021-2032)
- 9.3.4 Japan Market Size and Forecast (2021-2032)
- 9.3.5 South Korea Market Size and Forecast (2021-2032)
- 9.3.6 India Market Size and Forecast (2021-2032)
- 9.3.7 Southeast Asia Market Size and Forecast (2021-2032)
- 9.3.8 Australia Market Size and Forecast (2021-2032)

## **10 SOUTH AMERICA**

- 10.1 South America Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2032)
- 10.2 South America Textile Strain Sensors Sales Quantity by Application (2021-2032)
- 10.3 South America Textile Strain Sensors Market Size by Country
  - 10.3.1 South America Textile Strain Sensors Sales Quantity by Country (2021-2032)
  - 10.3.2 South America Textile Strain Sensors Consumption Value by Country (2021-2032)
  - 10.3.3 Brazil Market Size and Forecast (2021-2032)
  - 10.3.4 Argentina Market Size and Forecast (2021-2032)

## **11 MIDDLE EAST & AFRICA**

- 11.1 Middle East & Africa Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2032)
- 11.2 Middle East & Africa Textile Strain Sensors Sales Quantity by Application (2021-2032)
- 11.3 Middle East & Africa Textile Strain Sensors Market Size by Country
  - 11.3.1 Middle East & Africa Textile Strain Sensors Sales Quantity by Country (2021-2032)
  - 11.3.2 Middle East & Africa Textile Strain Sensors Consumption Value by Country (2021-2032)
  - 11.3.3 Turkey Market Size and Forecast (2021-2032)
  - 11.3.4 Egypt Market Size and Forecast (2021-2032)
  - 11.3.5 Saudi Arabia Market Size and Forecast (2021-2032)
  - 11.3.6 South Africa Market Size and Forecast (2021-2032)

## **12 MARKET DYNAMICS**

- 12.1 Textile Strain Sensors Market Drivers
- 12.2 Textile Strain Sensors Market Restraints

12.3 Textile Strain Sensors Trends Analysis

12.4 Porters Five Forces Analysis

12.4.1 Threat of New Entrants

12.4.2 Bargaining Power of Suppliers

12.4.3 Bargaining Power of Buyers

12.4.4 Threat of Substitutes

12.4.5 Competitive Rivalry

## **13 RAW MATERIAL AND INDUSTRY CHAIN**

13.1 Raw Material of Textile Strain Sensors and Key Manufacturers

13.2 Manufacturing Costs Percentage of Textile Strain Sensors

13.3 Textile Strain Sensors Production Process

13.4 Industry Value Chain Analysis

## **14 SHIPMENTS BY DISTRIBUTION CHANNEL**

14.1 Sales Channel

14.1.1 Direct to End-User

14.1.2 Distributors

14.2 Textile Strain Sensors Typical Distributors

14.3 Textile Strain Sensors Typical Customers

## **15 RESEARCH FINDINGS AND CONCLUSION**

## **16 APPENDIX**

16.1 Methodology

16.2 Research Process and Data Source

16.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. Global Textile Strain Sensors Consumption Value by Sensing Mechanism, (USD Million), 2021 & 2025 & 2032

Table 2. Global Textile Strain Sensors Consumption Value by Material Type, (USD Million), 2021 & 2025 & 2032

Table 3. Global Textile Strain Sensors Consumption Value by Performance Level, (USD Million), 2021 & 2025 & 2032

Table 4. Global Textile Strain Sensors Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Texensor Basic Information, Manufacturing Base and Competitors

Table 6. Texensor Major Business

Table 7. Texensor Textile Strain Sensors Product and Services

Table 8. Texensor Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 9. Texensor Recent Developments/Updates

Table 10. Sensoria Inc. Basic Information, Manufacturing Base and Competitors

Table 11. Sensoria Inc. Major Business

Table 12. Sensoria Inc. Textile Strain Sensors Product and Services

Table 13. Sensoria Inc. Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 14. Sensoria Inc. Recent Developments/Updates

Table 15. Textronics Inc. Basic Information, Manufacturing Base and Competitors

Table 16. Textronics Inc. Major Business

Table 17. Textronics Inc. Textile Strain Sensors Product and Services

Table 18. Textronics Inc. Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 19. Textronics Inc. Recent Developments/Updates

Table 20. Wave Company Basic Information, Manufacturing Base and Competitors

Table 21. Wave Company Major Business

Table 22. Wave Company Textile Strain Sensors Product and Services

Table 23. Wave Company Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 24. Wave Company Recent Developments/Updates

Table 25. Ohmatex ApS Basic Information, Manufacturing Base and Competitors

Table 26. Ohmatex ApS Major Business

Table 27. Ohmatex ApS Textile Strain Sensors Product and Services

Table 28. Ohmatex ApS Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 29. Ohmatex ApS Recent Developments/Updates

Table 30. AiQ Smart Clothing Inc. Basic Information, Manufacturing Base and Competitors

Table 31. AiQ Smart Clothing Inc. Major Business

Table 32. AiQ Smart Clothing Inc. Textile Strain Sensors Product and Services

Table 33. AiQ Smart Clothing Inc. Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 34. AiQ Smart Clothing Inc. Recent Developments/Updates

Table 35. Fibersensing Basic Information, Manufacturing Base and Competitors

Table 36. Fibersensing Major Business

Table 37. Fibersensing Textile Strain Sensors Product and Services

Table 38. Fibersensing Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 39. Fibersensing Recent Developments/Updates

Table 40. Sensitronics LLC Basic Information, Manufacturing Base and Competitors

Table 41. Sensitronics LLC Major Business

Table 42. Sensitronics LLC Textile Strain Sensors Product and Services

Table 43. Sensitronics LLC Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 44. Sensitronics LLC Recent Developments/Updates

Table 45. Interlink Electronics Basic Information, Manufacturing Base and Competitors

Table 46. Interlink Electronics Major Business

Table 47. Interlink Electronics Textile Strain Sensors Product and Services

Table 48. Interlink Electronics Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 49. Interlink Electronics Recent Developments/Updates

Table 50. Tekscan Basic Information, Manufacturing Base and Competitors

Table 51. Tekscan Major Business

Table 52. Tekscan Textile Strain Sensors Product and Services

Table 53. Tekscan Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 54. Tekscan Recent Developments/Updates

Table 55. Vancera Technology Basic Information, Manufacturing Base and Competitors

Table 56. Vancera Technology Major Business

Table 57. Vancera Technology Textile Strain Sensors Product and Services

Table 58. Vancera Technology Textile Strain Sensors Sales Quantity (K Units), Average

Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 59. Vancera Technology Recent Developments/Updates

Table 60. Aisiyi (Xiamen) Technology Basic Information, Manufacturing Base and Competitors

Table 61. Aisiyi (Xiamen) Technology Major Business

Table 62. Aisiyi (Xiamen) Technology Textile Strain Sensors Product and Services

Table 63. Aisiyi (Xiamen) Technology Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 64. Aisiyi (Xiamen) Technology Recent Developments/Updates

Table 65. Nanjing Shiheng Electronics Basic Information, Manufacturing Base and Competitors

Table 66. Nanjing Shiheng Electronics Major Business

Table 67. Nanjing Shiheng Electronics Textile Strain Sensors Product and Services

Table 68. Nanjing Shiheng Electronics Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 69. Nanjing Shiheng Electronics Recent Developments/Updates

Table 70. Anhui Zhimin Electrical Technology Basic Information, Manufacturing Base and Competitors

Table 71. Anhui Zhimin Electrical Technology Major Business

Table 72. Anhui Zhimin Electrical Technology Textile Strain Sensors Product and Services

Table 73. Anhui Zhimin Electrical Technology Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 74. Anhui Zhimin Electrical Technology Recent Developments/Updates

Table 75. Suzhou Nanomicro Technology Basic Information, Manufacturing Base and Competitors

Table 76. Suzhou Nanomicro Technology Major Business

Table 77. Suzhou Nanomicro Technology Textile Strain Sensors Product and Services

Table 78. Suzhou Nanomicro Technology Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Suzhou Nanomicro Technology Recent Developments/Updates

Table 80. Shenzhen Innovand Systems Basic Information, Manufacturing Base and Competitors

Table 81. Shenzhen Innovand Systems Major Business

Table 82. Shenzhen Innovand Systems Textile Strain Sensors Product and Services

Table 83. Shenzhen Innovand Systems Textile Strain Sensors Sales Quantity (K Units), Average Price (US\$/Unit), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Shenzhen Innovand Systems Recent Developments/Updates

Table 85. Global Textile Strain Sensors Sales Quantity by Manufacturer (2021-2026) & (K Units)

Table 86. Global Textile Strain Sensors Revenue by Manufacturer (2021-2026) & (USD Million)

Table 87. Global Textile Strain Sensors Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 88. Market Position of Manufacturers in Textile Strain Sensors, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 89. Head Office and Textile Strain Sensors Production Site of Key Manufacturer

Table 90. Textile Strain Sensors Market: Company Product Type Footprint

Table 91. Textile Strain Sensors Market: Company Product Application Footprint

Table 92. Textile Strain Sensors New Market Entrants and Barriers to Market Entry

Table 93. Textile Strain Sensors Mergers, Acquisition, Agreements, and Collaborations

Table 94. Global Textile Strain Sensors Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 95. Global Textile Strain Sensors Sales Quantity by Region (2021-2026) & (K Units)

Table 96. Global Textile Strain Sensors Sales Quantity by Region (2027-2032) & (K Units)

Table 97. Global Textile Strain Sensors Consumption Value by Region (2021-2026) & (USD Million)

Table 98. Global Textile Strain Sensors Consumption Value by Region (2027-2032) & (USD Million)

Table 99. Global Textile Strain Sensors Average Price by Region (2021-2026) & (US\$/Unit)

Table 100. Global Textile Strain Sensors Average Price by Region (2027-2032) & (US\$/Unit)

Table 101. Global Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2026) & (K Units)

Table 102. Global Textile Strain Sensors Sales Quantity by Sensing Mechanism (2027-2032) & (K Units)

Table 103. Global Textile Strain Sensors Consumption Value by Sensing Mechanism (2021-2026) & (USD Million)

Table 104. Global Textile Strain Sensors Consumption Value by Sensing Mechanism (2027-2032) & (USD Million)

Table 105. Global Textile Strain Sensors Average Price by Sensing Mechanism (2021-2026) & (US\$/Unit)

Table 106. Global Textile Strain Sensors Average Price by Sensing Mechanism (2027-2032) & (US\$/Unit)

Table 107. Global Textile Strain Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 108. Global Textile Strain Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 109. Global Textile Strain Sensors Consumption Value by Application (2021-2026) & (USD Million)

Table 110. Global Textile Strain Sensors Consumption Value by Application (2027-2032) & (USD Million)

Table 111. Global Textile Strain Sensors Average Price by Application (2021-2026) & (US\$/Unit)

Table 112. Global Textile Strain Sensors Average Price by Application (2027-2032) & (US\$/Unit)

Table 113. North America Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2026) & (K Units)

Table 114. North America Textile Strain Sensors Sales Quantity by Sensing Mechanism (2027-2032) & (K Units)

Table 115. North America Textile Strain Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 116. North America Textile Strain Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 117. North America Textile Strain Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 118. North America Textile Strain Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 119. North America Textile Strain Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 120. North America Textile Strain Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 121. Europe Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2026) & (K Units)

Table 122. Europe Textile Strain Sensors Sales Quantity by Sensing Mechanism (2027-2032) & (K Units)

Table 123. Europe Textile Strain Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 124. Europe Textile Strain Sensors Sales Quantity by Application (2027-2032) &

(K Units)

Table 125. Europe Textile Strain Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 126. Europe Textile Strain Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 127. Europe Textile Strain Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 128. Europe Textile Strain Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 129. Asia-Pacific Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2026) & (K Units)

Table 130. Asia-Pacific Textile Strain Sensors Sales Quantity by Sensing Mechanism (2027-2032) & (K Units)

Table 131. Asia-Pacific Textile Strain Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 132. Asia-Pacific Textile Strain Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 133. Asia-Pacific Textile Strain Sensors Sales Quantity by Region (2021-2026) & (K Units)

Table 134. Asia-Pacific Textile Strain Sensors Sales Quantity by Region (2027-2032) & (K Units)

Table 135. Asia-Pacific Textile Strain Sensors Consumption Value by Region (2021-2026) & (USD Million)

Table 136. Asia-Pacific Textile Strain Sensors Consumption Value by Region (2027-2032) & (USD Million)

Table 137. South America Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2026) & (K Units)

Table 138. South America Textile Strain Sensors Sales Quantity by Sensing Mechanism (2027-2032) & (K Units)

Table 139. South America Textile Strain Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 140. South America Textile Strain Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 141. South America Textile Strain Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 142. South America Textile Strain Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 143. South America Textile Strain Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 144. South America Textile Strain Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 145. Middle East & Africa Textile Strain Sensors Sales Quantity by Sensing Mechanism (2021-2026) & (K Units)

Table 146. Middle East & Africa Textile Strain Sensors Sales Quantity by Sensing Mechanism (2027-2032) & (K Units)

Table 147. Middle East & Africa Textile Strain Sensors Sales Quantity by Application (2021-2026) & (K Units)

Table 148. Middle East & Africa Textile Strain Sensors Sales Quantity by Application (2027-2032) & (K Units)

Table 149. Middle East & Africa Textile Strain Sensors Sales Quantity by Country (2021-2026) & (K Units)

Table 150. Middle East & Africa Textile Strain Sensors Sales Quantity by Country (2027-2032) & (K Units)

Table 151. Middle East & Africa Textile Strain Sensors Consumption Value by Country (2021-2026) & (USD Million)

Table 152. Middle East & Africa Textile Strain Sensors Consumption Value by Country (2027-2032) & (USD Million)

Table 153. Textile Strain Sensors Raw Material

Table 154. Key Manufacturers of Textile Strain Sensors Raw Materials

Table 155. Textile Strain Sensors Typical Distributors

Table 156. Textile Strain Sensors Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Textile Strain Sensors Picture

Figure 2. Global Textile Strain Sensors Revenue by Sensing Mechanism, (USD Million), 2021 & 2025 & 2032

Figure 3. Global Textile Strain Sensors Revenue Market Share by Sensing Mechanism in 2025

Figure 4. Resistive Examples

Figure 5. Capacitive Examples

Figure 6. Optical Examples

Figure 7. Inductive Examples

Figure 8. Piezoresistive / Thermal Examples

Figure 9. Global Textile Strain Sensors Revenue by Material Type, (USD Million), 2021 & 2025 & 2032

Figure 10. Global Textile Strain Sensors Revenue Market Share by Material Type in 2025

Figure 11. Carbon-based Examples

Figure 12. Conductive Polymer Examples

Figure 13. Metal Fiber Examples

Figure 14. Conductive Coating Examples

Figure 15. Composite Fiber Examples

Figure 16. Global Textile Strain Sensors Revenue by Performance Level, (USD Million), 2021 & 2025 & 2032

Figure 17. Global Textile Strain Sensors Revenue Market Share by Performance Level in 2025

Figure 18. Low Sensitivity Sensors?Gauge Factor Figure 19. Medium Sensitivity Sensors?Gauge Factor 10–50? Examples

Figure 20. High Sensitivity Sensors?Gauge Factor > 50? Examples

Figure 21. Others Examples

Figure 22. Global Textile Strain Sensors Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 23. Global Textile Strain Sensors Revenue Market Share by Application in 2025

Figure 24. Consumer Examples

Figure 25. Clinical Examples

Figure 26. Rehabilitation Examples

Figure 27. Others Examples

Figure 28. Global Textile Strain Sensors Consumption Value, (USD Million): 2021 &

2025 & 2032

Figure 29. Global Textile Strain Sensors Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 30. Global Textile Strain Sensors Sales Quantity (2021-2032) & (K Units)

Figure 31. Global Textile Strain Sensors Price (2021-2032) & (US\$/Unit)

Figure 32. Global Textile Strain Sensors Sales Quantity Market Share by Manufacturer in 2025

Figure 33. Global Textile Strain Sensors Revenue Market Share by Manufacturer in 2025

Figure 34. Producer Shipments of Textile Strain Sensors by Manufacturer Sales (\$MM) and Market Share (%): 2025

Figure 35. Top 3 Textile Strain Sensors Manufacturer (Revenue) Market Share in 2025

Figure 36. Top 6 Textile Strain Sensors Manufacturer (Revenue) Market Share in 2025

Figure 37. Global Textile Strain Sensors Sales Quantity Market Share by Region (2021-2032)

Figure 38. Global Textile Strain Sensors Consumption Value Market Share by Region (2021-2032)

Figure 39. North America Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 40. Europe Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 41. Asia-Pacific Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 42. South America Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 43. Middle East & Africa Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 44. Global Textile Strain Sensors Sales Quantity Market Share by Sensing Mechanism (2021-2032)

Figure 45. Global Textile Strain Sensors Consumption Value Market Share by Sensing Mechanism (2021-2032)

Figure 46. Global Textile Strain Sensors Average Price by Sensing Mechanism (2021-2032) & (US\$/Unit)

Figure 47. Global Textile Strain Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 48. Global Textile Strain Sensors Revenue Market Share by Application (2021-2032)

Figure 49. Global Textile Strain Sensors Average Price by Application (2021-2032) & (US\$/Unit)

Figure 50. North America Textile Strain Sensors Sales Quantity Market Share by Sensing Mechanism (2021-2032)

Figure 51. North America Textile Strain Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 52. North America Textile Strain Sensors Sales Quantity Market Share by Country (2021-2032)

Figure 53. North America Textile Strain Sensors Consumption Value Market Share by Country (2021-2032)

Figure 54. United States Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 55. Canada Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 56. Mexico Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 57. Europe Textile Strain Sensors Sales Quantity Market Share by Sensing Mechanism (2021-2032)

Figure 58. Europe Textile Strain Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 59. Europe Textile Strain Sensors Sales Quantity Market Share by Country (2021-2032)

Figure 60. Europe Textile Strain Sensors Consumption Value Market Share by Country (2021-2032)

Figure 61. Germany Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 62. France Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 63. United Kingdom Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 64. Russia Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 65. Italy Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 66. Asia-Pacific Textile Strain Sensors Sales Quantity Market Share by Sensing Mechanism (2021-2032)

Figure 67. Asia-Pacific Textile Strain Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 68. Asia-Pacific Textile Strain Sensors Sales Quantity Market Share by Region (2021-2032)

Figure 69. Asia-Pacific Textile Strain Sensors Consumption Value Market Share by Region (2021-2032)

Figure 70. China Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 71. Japan Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 72. South Korea Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 73. India Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 74. Southeast Asia Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 75. Australia Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 76. South America Textile Strain Sensors Sales Quantity Market Share by Sensing Mechanism (2021-2032)

Figure 77. South America Textile Strain Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 78. South America Textile Strain Sensors Sales Quantity Market Share by Country (2021-2032)

Figure 79. South America Textile Strain Sensors Consumption Value Market Share by Country (2021-2032)

Figure 80. Brazil Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 81. Argentina Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 82. Middle East & Africa Textile Strain Sensors Sales Quantity Market Share by Sensing Mechanism (2021-2032)

Figure 83. Middle East & Africa Textile Strain Sensors Sales Quantity Market Share by Application (2021-2032)

Figure 84. Middle East & Africa Textile Strain Sensors Sales Quantity Market Share by Country (2021-2032)

Figure 85. Middle East & Africa Textile Strain Sensors Consumption Value Market Share by Country (2021-2032)

Figure 86. Turkey Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 87. Egypt Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 88. Saudi Arabia Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

Figure 89. South Africa Textile Strain Sensors Consumption Value (2021-2032) & (USD Million)

- Figure 90. Textile Strain Sensors Market Drivers
- Figure 91. Textile Strain Sensors Market Restraints
- Figure 92. Textile Strain Sensors Market Trends
- Figure 93. Porters Five Forces Analysis
- Figure 94. Manufacturing Cost Structure Analysis of Textile Strain Sensors in 2025
- Figure 95. Manufacturing Process Analysis of Textile Strain Sensors
- Figure 96. Textile Strain Sensors Industrial Chain
- Figure 97. Sales Channel: Direct to End-User vs Distributors
- Figure 98. Direct Channel Pros & Cons
- Figure 99. Indirect Channel Pros & Cons
- Figure 100. Methodology
- Figure 101. Research Process and Data Source

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