

# **Smart Textiles Market Report by Type (Passive Smart Textile, Active Smart Textile), Functionality (Sensing, Energy Harvesting, Luminescence and Aesthetics, Thermoelectricity, and Others), End-Use Sector (Military and Protection, Healthcare, Sports and Fitness, Fashion and Entertainment, Transportation, Architecture, and Others), and Region 2024-2032**

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## **Abstracts**

The global smart textiles market size reached US\$ 4.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 24.6 Billion by 2032, exhibiting a growth rate (CAGR) of 21.5% during 2024-2032. The escalating need for constant monitoring of health metrics, the rapid growth of the Internet of Things (IoT), and the growing support in the form of grants, and tax incentives are among the key factors driving the market growth.

Smart textiles, also known as e-textiles, are fabrics integrated with digital components such as sensors, microcontrollers, and conductive fibers. These textiles have the ability to sense, react, and adapt to environmental conditions or stimuli from mechanical, thermal, or chemical sources. Unlike traditional fabrics, smart textiles offer interactive functionalities and can communicate data. They are increasingly being used in various sectors including healthcare, sports, military, and fashion. In healthcare, they can monitor vital signs and alert medical professionals. In sports, they can track performance metrics. Military applications include advanced camouflage and body armor with built-in communication systems. The rise of smart textiles is fueled by advancements in material science and the growing Internet of Things (IoT) ecosystem.

The increasing product demand in the healthcare sector majorly drives the market. As

As populations age and the incidence of chronic diseases rises, there is a growing need for constant monitoring of health metrics such as heart rate, temperature, and blood pressure. Smart textiles offer a discreet and convenient solution. Along with this, the rapid growth of the Internet of Things (IoT) is significantly contributing to the market expansion of smart textiles. As IoT devices become more ubiquitous, the need for seamless integration between hardware and user experience grows. Smart textiles serve as an interface for IoT applications, collecting data from various sensors and transmitting it to a centralized system for analysis. In addition, consumer electronics and wearables have become integral parts of our daily lives, and the integration with smart textiles is a natural progression. In addition, governments and regulatory bodies are increasingly recognizing the potential of smart textiles in various sectors including healthcare, defense, and public safety. As a result, there is growing support in the form of grants, tax incentives, and research funding for companies in the smart textiles space. This regulatory support can accelerate research and development activities, help small startups scale, and encourage collaborations between textile manufacturers and technology companies.

#### Smart Textiles Market Trends/Drivers:

##### Growing Importance in Sports and Fitness

The sports and fitness sector is another important market driver for smart textiles. Athletes and fitness enthusiasts are always on the lookout for ways to enhance performance and improve training outcomes. Smart textiles fit seamlessly into this quest for optimization. From shirts that monitor muscle engagement to socks that analyze gait, these textiles provide a wealth of information that can be used to tweak training regimens and prevent injuries. In addition, the data gathered can be synched to smartphones or other devices, allowing for real-time feedback that can be acted upon immediately. This level of granular data collection was previously possible only in specialized sports labs but can now be accessed by anyone, from professional athletes to casual joggers. Moreover, the growing focus on health and wellness trends globally is influencing the demand for smart textiles in sports and fitness, as they offer an easily accessible way to monitor various metrics that can contribute to a healthier and more active lifestyle.

##### Military and Defense Applications

The application of smart textiles in military and defense is a powerful driver for market growth. These textiles offer unique functionalities such as advanced camouflage, temperature regulation, and built-in communication systems, which are crucial for

modern warfare and defense strategies. The military has always been a pioneer in adopting cutting-edge technologies, and smart textiles are no exception. Additionally, the material advancements in smart textiles can offer soldiers lighter and more durable uniforms with integrated technologies. For instance, a smart textile-based uniform could monitor a soldier's health metrics and environmental conditions, while also enabling satellite communication and navigation. This increases the effectiveness of individual soldiers and enhances the operational efficiency of the entire military force. Governments around the world are investing in research and development of advanced materials and textiles for military applications, which is a strong indicator of the sector's impact on the overall smart textiles market.

### Technological Advancements in Material Science

The proliferation of smart textiles is intrinsically linked to breakthroughs in material science. Researchers and scientists are continually pushing the boundaries of what textiles can do by incorporating nano-materials, conductive polymers, and other advanced materials into traditional fabrics. These innovations offer unprecedented characteristics like electrical conductivity, durability, and the ability to interact with the surrounding environment. For instance, textiles infused with temperature-responsive materials can automatically adapt to external thermal conditions, providing improved comfort and functionality. These advancements in material science enable the creation of textiles with highly specialized capabilities that can be customized for specific applications, from military to consumer electronics. As research continues and new materials are developed, the versatility and functionality of smart textiles expand, making them increasingly attractive for a broad range of applications. This creates a virtuous cycle where technological advancements drive demand, which in turn fuels further research and development.

### Smart Textiles Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the global smart textiles market report, along with forecasts at the global, regional and country levels for 2024-2032. Our report has categorized the market based on type, functionality and end-use sector.

### Breakup by Type:

Passive Smart Textile

Active Smart Textile

Active holds the largest market share

The report has provided a detailed breakup and analysis of the market based on the type. This includes passive and active. According to the report, active accounted for the largest market share.

Active smart textiles represent a subcategory within the smart textiles industry that senses and responds to external conditions or stimuli. One of the key market drivers for active smart textiles is their wide array of applications across diverse sectors, from healthcare and sports to automotive and aerospace. In healthcare, active smart textiles can be designed to release medications or change their structure to aid in wound healing, offering a more dynamic form of treatment. In the automotive sector, they can be integrated into seats or steering wheels to adapt to driver behavior, improving safety measures. The military is also a significant adopter of active smart textiles, utilizing them for advanced camouflage techniques or for garments that can adapt to extreme environmental conditions. Furthermore, consumer demand for interactive and adaptive wearable technology is fueling market growth. With advancements in sensor technology and data analytics, active smart textiles are becoming more sophisticated in their functionalities, making them increasingly appealing for both individual consumers and industrial applications. Government grants and increased funding for research in material science and IoT further accelerate the growth in this market, solidifying the importance of active smart textiles.

Breakup by Functionality:

- Sensing
- Energy Harvesting
- Luminescence and Aesthetics
- Thermoelectricity
- Others

Energy harvesting accounts for the majority of the market share

A detailed breakup and analysis of the market based on the functionality has also been provided in the report. This includes sensing, energy harvesting, luminescence and aesthetics, thermoelectricity, and others. According to the report, energy harvesting accounted for the largest market share.

Energy harvesting functionality in smart textiles is gaining considerable attention as a

significant market driver, largely due to the growing emphasis on sustainability and the efficient use of resources. These textiles have the capability to capture and store energy from various sources like solar, thermal, and mechanical energy. For instance, a jacket with solar-absorbing fibers can charge electronic devices on the go, reducing the need for traditional power sources. This has a particularly compelling application in remote or off-grid areas where conventional energy sources are scarce. Industries, such as healthcare see the benefit of energy-harvesting textiles for powering medical sensors without the need for frequent battery replacements. In the military sector, uniforms equipped with energy-harvesting capabilities can power communication devices, GPS systems, and other essential gadgets, thus improving operational efficiency. The trend toward the adoption of Internet of Things (IoT) devices, which require constant power, further fuels the demand for self-sufficient, energy-harvesting smart textiles. As consumers and industries continue to prioritize eco-friendly and sustainable options, the market for smart textiles with energy harvesting functionalities is expected to witness significant growth.

#### Breakup by End-Use Sector:

- Military and Protection
- Healthcare
- Sports and Fitness
- Fashion and Entertainment
- Transportation
- Architecture
- Others

Military and protection hold the largest market share

The report has provided a detailed breakup and analysis of the market based on the end-use sector. This includes military and protection, healthcare, sports and fitness, fashion and entertainment, transportation, architecture, and others. According to the report, military and protection accounted for the largest market share.

The military and protection segment is a significant market driver for the smart textiles industry, driven by the critical need for enhanced performance, safety, and communication among defense personnel. Smart textiles offer an array of functionalities tailored for military applications, such as advanced camouflage, body temperature regulation, and integrated communication systems. These specialized textiles are particularly useful in modern warfare conditions where technological advantage can be

a decisive factor. For instance, uniforms equipped with sensors can monitor soldiers' vital signs, hydration levels, and fatigue, thereby enabling timely medical interventions. Similarly, textiles with built-in GPS and communication systems can improve team coordination and situational awareness. Governments and defense agencies are increasingly investing in R&D initiatives to integrate smart textiles into military equipment, providing a robust financial stimulus for market growth. Moreover, these textiles are not limited to combat scenarios; they also find applications in training simulations, search and rescue missions, and disaster relief operations. The multifaceted utility of smart textiles in the military sector, backed by substantial investment and a focus on innovation, ensures sustained growth in this market segment.

#### Breakup by Region:

North America

United States

Canada

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Others

Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

North America exhibits a clear dominance, accounting for the largest smart textiles market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, North America exhibited the largest segment.

The North America region stands as a robust market driver for the smart textiles industry due to a confluence of factors such as technological innovation, consumer demand, and strong institutional support. Home to a large number of tech companies, research institutions, and startups, North America is a hub for advancements in material science and sensor technologies that are critical for smart textiles. The region also benefits from a consumer base that is quick to adopt new technologies, thereby creating a receptive market for smart textiles in sectors, such as healthcare, sports, and consumer electronics. Government backing in the form of grants and R&D funding, especially in the healthcare and defense sectors, provides additional impetus for growth.

Besides this, the well-established Internet of Things (IoT) ecosystem in North America complements the smart textiles industry by providing a framework for data collection and analysis, essential for many smart textile applications. Regulatory frameworks around safety and data protection also instill consumer confidence, thus encouraging market growth. All these elements together make North America a fertile ground for the development and adoption of smart textiles, sustaining its influence as a key market driver.

#### Competitive Landscape:

The key players are integrating sensors, conductive materials, and microelectronics into fabrics. Along with this, companies are concentrating on creating wearable tech products such as smart clothing, fitness trackers, and health monitoring garments. These innovations often involve monitoring vital signs, tracking physical activity, and providing real-time data to users. In addition, smart textiles are being developed for healthcare purposes, including remote patient monitoring, wound care, and smart compression garments. These textiles have the potential to enhance patient comfort and improve medical outcomes. Additionally, smart textiles are used in automotive interiors to enhance comfort and safety. Companies are developing fabrics that can

regulate temperature, provide lumbar support, and even detect driver fatigue. Furthermore, brands are working on sustainable smart textiles by incorporating eco-friendly materials and manufacturing processes. This aligns with the growing demand for environmentally responsible products.

The market research report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

Adidas AG  
AiQ Smart Clothing Inc.  
Clothing+  
Dupont De Nemours Inc.  
Gentherm Incorporated  
Google LLC  
Interactive Wear AG  
Ohmatex A/S  
Schoeller Textil AG  
Sensoria Inc.  
Texas Instruments Incorporated  
Textronics  
Vista Medical Ltd.

#### Recent Developments:

In January 2023, Texas Instruments Incorporated established a partnership with TDK Corporation to create the world's first sensor module with embedded edge AI and wireless mesh networking, the i3 Micro Module.

In October 2020, Adidas AG developed a brand-new technology called Strung, which is the first textile technology to convert athlete data into dynamic performance material. It is the first totally athlete data-coded shoe on the market and combines the high-resolution creation technologies Adidas 4D and Strung.

In January 2020, Schoeller Textil AG introduced a line of heatable capsules. With the Heatable Capsule line, Telekom contributes its technology elements, while Schoeller created the heating technologies and materials in addition to the electronic parts.

AlphaTauri designed the line.

#### Key Questions Answered in This Report

1. What was the size of the global smart textiles market in 2023?
2. What is the expected growth rate of the global smart textiles market during



2024-2032?

3. What are the key factors driving the global smart textiles market?
4. What has been the impact of COVID-19 on the global smart textiles market?
5. What is the breakup of the global smart textiles market based on the type?
6. What is the breakup of the global smart textiles market based on the functionality?
7. What is the breakup of the global smart textiles market based on the end-use sector?
8. What are the key regions in the global smart textiles market?
9. Who are the key players/companies in the global smart textiles market?

## Contents

### 1 PREFACE

### 2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### 3 EXECUTIVE SUMMARY

### 4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

### 5 GLOBAL SMART TEXTILES MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Forecast

### 6 MARKET BREAKUP BY TYPE

- 6.1 Passive
  - 6.1.1 Market Trends
  - 6.1.2 Market Forecast
- 6.2 Active
  - 6.2.1 Market Trends

## 6.2.2 Market Forecast

# 7 MARKET BREAKUP BY FUNCTIONALITY

## 7.1 Sensing

### 7.1.1 Market Trends

### 7.1.2 Market Forecast

## 7.2 Energy Harvesting

### 7.2.1 Market Trends

### 7.2.2 Market Forecast

## 7.3 Luminescence and Aesthetics

### 7.3.1 Market Trends

### 7.3.2 Market Forecast

## 7.4 Thermoelectricity

### 7.4.1 Market Trends

### 7.4.2 Market Forecast

## 7.5 Others

### 7.5.1 Market Trends

### 7.5.2 Market Forecast

# 8 MARKET BREAKUP BY END-USE SECTOR

## 8.1 Military and Protection

### 8.1.1 Market Trends

### 8.1.2 Market Forecast

## 8.2 Healthcare

### 8.2.1 Market Trends

### 8.2.2 Market Forecast

## 8.3 Sports and Fitness

### 8.3.1 Market Trends

### 8.3.2 Market Forecast

## 8.4 Fashion and Entertainment

### 8.4.1 Market Trends

### 8.4.2 Market Forecast

## 8.5 Transportation

### 8.5.1 Market Trends

### 8.5.2 Market Forecast

## 8.6 Architecture

### 8.6.1 Market Trends

8.6.2 Market Forecast

8.7 Others

8.7.1 Market Trends

8.7.2 Market Forecast

## **9 MARKET BREAKUP BY REGION**

9.1 North America

9.1.1 United States

9.1.1.1 Market Trends

9.1.1.2 Market Forecast

9.1.2 Canada

9.1.2.1 Market Trends

9.1.2.2 Market Forecast

9.2 Asia Pacific

9.2.1 China

9.2.1.1 Market Trends

9.2.1.2 Market Forecast

9.2.2 Japan

9.2.2.1 Market Trends

9.2.2.2 Market Forecast

9.2.3 India

9.2.3.1 Market Trends

9.2.3.2 Market Forecast

9.2.4 South Korea

9.2.4.1 Market Trends

9.2.4.2 Market Forecast

9.2.5 Australia

9.2.5.1 Market Trends

9.2.5.2 Market Forecast

9.2.6 Indonesia

9.2.6.1 Market Trends

9.2.6.2 Market Forecast

9.2.7 Others

9.2.7.1 Market Trends

9.2.7.2 Market Forecast

9.3 Europe

9.3.1 Germany

9.3.1.1 Market Trends

- 9.3.1.2 Market Forecast
- 9.3.2 France
  - 9.3.2.1 Market Trends
  - 9.3.2.2 Market Forecast
- 9.3.3 United Kingdom
  - 9.3.3.1 Market Trends
  - 9.3.3.2 Market Forecast
- 9.3.4 Italy
  - 9.3.4.1 Market Trends
  - 9.3.4.2 Market Forecast
- 9.3.5 Spain
  - 9.3.5.1 Market Trends
  - 9.3.5.2 Market Forecast
- 9.3.6 Russia
  - 9.3.6.1 Market Trends
  - 9.3.6.2 Market Forecast
- 9.3.7 Others
  - 9.3.7.1 Market Trends
  - 9.3.7.2 Market Forecast
- 9.4 Latin America
  - 9.4.1 Brazil
    - 9.4.1.1 Market Trends
    - 9.4.1.2 Market Forecast
  - 9.4.2 Mexico
    - 9.4.2.1 Market Trends
    - 9.4.2.2 Market Forecast
  - 9.4.3 Others
    - 9.4.3.1 Market Trends
    - 9.4.3.2 Market Forecast
- 9.5 Middle East and Africa
  - 9.5.1 Market Trends
  - 9.5.2 Market Breakup by Country
  - 9.5.3 Market Forecast

## **10 SWOT ANALYSIS**

- 10.1 Overview
- 10.2 Strengths
- 10.3 Weaknesses

10.4 Opportunities

10.5 Threats

## **11 VALUE CHAIN ANALYSIS**

## **12 PORTERS FIVE FORCES ANALYSIS**

12.1 Overview

12.2 Bargaining Power of Buyers

12.3 Bargaining Power of Suppliers

12.4 Degree of Competition

12.5 Threat of New Entrants

12.6 Threat of Substitutes

## **13 PRICE INDICATORS**

## **14 COMPETITIVE LANDSCAPE**

14.1 Market Structure

14.2 Key Players

14.3 Profiles of Key Players

14.3.1 Adidas AG

14.3.1.1 Company Overview

14.3.1.2 Product Portfolio

14.3.1.3 Financials

14.3.1.4 SWOT Analysis

14.3.2 AiQ Smart Clothing Inc.

14.3.2.1 Company Overview

14.3.2.2 Product Portfolio

14.3.3 Clothing+

14.3.3.1 Company Overview

14.3.3.2 Product Portfolio

14.3.3.3 Financials

14.3.4 Dupont De Nemours Inc.

14.3.4.1 Company Overview

14.3.4.2 Product Portfolio

14.3.4.3 Financials

- 14.3.4.4 SWOT Analysis
- 14.3.5 Gentherm Incorporated
  - 14.3.5.1 Company Overview
  - 14.3.5.2 Product Portfolio
  - 14.3.5.3 Financials
- 14.3.6 Google LLC
  - 14.3.6.1 Company Overview
  - 14.3.6.2 Product Portfolio
  - 14.3.6.3 SWOT Analysis
- 14.3.7 Interactive Wear AG
  - 14.3.7.1 Company Overview
  - 14.3.7.2 Product Portfolio
  - 14.3.7.3 Financials
- 14.3.8 Ohmatex A/S
  - 14.3.8.1 Company Overview
  - 14.3.8.2 Product Portfolio
  - 14.3.8.3 Financials
- 14.3.9 Schoeller Textil AG
  - 14.3.9.1 Company Overview
  - 14.3.9.2 Product Portfolio
- 14.3.10 Sensoria Inc.
  - 14.3.10.1 Company Overview
  - 14.3.10.2 Product Portfolio
- 14.3.11 Texas Instruments Incorporated
  - 14.3.11.1 Company Overview
  - 14.3.11.2 Product Portfolio
  - 14.3.11.3 Financials
  - 14.3.11.4 SWOT Analysis
- 14.3.12 Textronics
  - 14.3.12.1 Company Overview
  - 14.3.12.2 Product Portfolio
- 14.3.13 Vista Medical Ltd.
  - 14.3.13.1 Company Overview
  - 14.3.13.2 Product Portfolio

## List Of Tables

### LIST OF TABLES

Table 1: Global: Smart Textiles Market: Key Industry Highlights, 2023 and 2032

Table 2: Global: Smart Textiles Market Forecast: Breakup by Type (in Million US\$), 2024-2032

Table 3: Global: Smart Textiles Market Forecast: Breakup by Functionality (in Million US\$), 2024-2032

Table 4: Global: Smart Textiles Market Forecast: Breakup by End-Use Sector (in Million US\$), 2024-2032

Table 5: Global: Smart Textiles Market Forecast: Breakup by Region (in Million US\$), 2024-2032

Table 6: Global: Smart Textiles Market: Competitive Structure

Table 7: Global: Smart Textiles Market: Key Players



## List Of Figures

### LIST OF FIGURES

Figure 1: Global: Smart Textiles Market: Major Drivers and Challenges

Figure 2: Global: Smart Textiles Market: Sales Value (in Billion US\$), 2018-2023

Figure 3: Global: Smart Textiles Market: Breakup by Type (in %), 2023

Figure 4: Global: Smart Textiles Market: Breakup by Functionality (in %), 2023

Figure 5: Global: Smart Textiles Market: Breakup by End-Use Sector (in %), 2023

Figure 6: Global: Smart Textiles Market: Breakup by Region (in %), 2023

Figure 7: Global: Smart Textiles Market Forecast: Sales Value (in Billion US\$), 2024-2032

Figure 8: Global: Smart Textiles (Passive) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 9: Global: Smart Textiles (Passive) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 10: Global: Smart Textiles (Active) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 11: Global: Smart Textiles (Active) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 12: Global: Smart Textiles (Sensing) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 13: Global: Smart Textiles (Sensing) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 14: Global: Smart Textiles (Energy Harvesting) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 15: Global: Smart Textiles (Energy Harvesting) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 16: Global: Smart Textiles (Luminescence and Aesthetics) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 17: Global: Smart Textiles (Luminescence and Aesthetics) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 18: Global: Smart Textiles (Thermoelectricity) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 19: Global: Smart Textiles (Thermoelectricity) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 20: Global: Smart Textiles (Others) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 21: Global: Smart Textiles (Others) Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 22: Global: Smart Textiles (Military and protection) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 23: Global: Smart Textiles (Military and protection) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 24: Global: Smart Textiles (Healthcare) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 25: Global: Smart Textiles (Healthcare) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 26: Global: Smart Textiles (Sports and Fitness) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 27: Global: Smart Textiles (Sports and Fitness) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 28: Global: Smart Textiles (Fashion and Entertainment) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 29: Global: Smart Textiles (Fashion and Entertainment) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 30: Global: Smart Textiles (Transportation) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 31: Global: Smart Textiles (Transportation) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 32: Global: Smart Textiles (Architecture) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 33: Global: Smart Textiles (Architecture) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 34: Global: Smart Textiles (Others) Market: Sales Value (in Million US\$), 2018 & 2023

Figure 35: Global: Smart Textiles (Others) Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 36: North America: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 37: North America: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 38: United States: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 39: United States: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 40: Canada: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 41: Canada: Smart Textiles Market Forecast: Sales Value (in Million US\$),

2024-2032

Figure 42: Asia Pacific: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 43: Asia Pacific: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 44: China: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 45: China: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 46: Japan: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 47: Japan: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 48: India: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 49: India: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 50: South Korea: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 51: South Korea: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 52: Australia: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 53: Australia: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 54: Indonesia: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 55: Indonesia: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 56: Others: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 57: Others: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 58: Europe: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 59: Europe: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 60: Germany: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 61: Germany: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 62: France: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 63: France: Smart Textiles Market Forecast: Sales Value (in Million US\$), 2024-2032

Figure 64: United Kingdom: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 65: United Kingdom: Smart Textiles Market Forecast: Sales Value (in Million

US\$), 2024-2032

Figure 66: Italy: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 67: Italy: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 68: Spain: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 69: Spain: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 70: Russia: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 71: Russia: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 72: Others: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 73: Others: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 74: Latin America: Smart Textiles Market: Sales Value (in Million US\$), 2018 &  
2023

Figure 75: Latin America: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 76: Brazil: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 77: Brazil: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 78: Mexico: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 79: Mexico: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 80: Others: Smart Textiles Market: Sales Value (in Million US\$), 2018 & 2023

Figure 81: Others: Smart Textiles Market Forecast: Sales Value (in Million US\$),  
2024-2032

Figure 82: Middle East and Africa: Smart Textiles Market: Sales Value (in Million US\$),  
2018 & 2023

Figure 83: Middle East and Africa: Smart Textiles Market Forecast: Sales Value (in  
Million US\$), 2024-2032

Figure 84: Global: Smart Textiles Industry: SWOT Analysis

Figure 85: Global: Smart Textiles Industry: Value Chain Analysis

Figure 86: Global: Smart Textiles Industry: Porter's Five Forces Analysis

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