

Smart Textiles Market Analysis And Segment Forecasts To 2020

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Abstracts

The global market for smart textiles is expected to exceed USD 1,500 million by 2020. Increasing adoption of smart textiles across numerous end-use industries is expected to be the key driving force for the market. Grand View Research also observes that growing penetration of smartphones enabled with Bluetooth Low Energy (BLE) for connecting sensor-based devices to the Internet is expected to fuel market growth in the coming years.

Protection and military was observed to be the largest end-use segment, and accounted for over 27% of the overall market share in 2012. Sports and fitness is expected to register the fastest growth of 24.8% over the forecast period. Decreasing prices of electronic components is expected to make production cost-effective, further contributing to overall market demand. Ensuring user friendliness and seamless integration of technology into the fabric is a key challenge for industry participants.

Further Key findings from the study suggest:

The global smart textiles market was estimated to be USD 289.5 million in 2012, and is expected to grow at a CAGR of 24.1% from 2013 to 2020

Protection and military application of smart textiles is expected to remain the largest market segment over the next six years. Sports and fitness are also expected to benefit from this technology, since smart fabrics eliminate the need for bulky equipment such as chest straps. Medical applications accounted for over 7% of the market in 2012; the segment is expected to grow faster than the global average in the coming years. This is expected to be driven by the need for enhancement in administering nursing care, drug delivery, and other

procedures.

Smart fabric helps measure physiological parameters such as temperature, heart rate and blood pressure among others. Materials used comprise phase changing materials (PCM), nanofibers, conductive polymers, etc., while primary components include sensors and actuators. Problems concerning power supply are expected to drive the need for energy harvesting in the near future.

North America is expected to dominate market revenue, and accounted for over 45% of the global share in 2012. Asia Pacific is expected to be the fastest growing regional market, with an estimated CAGR of 25.2% from 2013 to 2020. Standardization is expected to be critical for the market to make the transition from specialized products to commercialization.

Industry stakeholders include a number of entities, such as manufacturers of textiles and electronic components, as well as original equipment manufacturers (OEM) and system integrators. Research and development activities as well as funding by government organizations are expected to help market players achieve product development and innovation. Key companies operating in the market include Ohmatex ApS, Tektronix. Inc., Clothing+, Adidas, Infineon Technologies, Weartech, Fibretronic Limited, and Peratech Ltd. among others.

For the purpose of this study, Grand View Research has segmented the smart textiles market on the basis of end-use and region:

Smart Textiles End-Use Outlook:

Fashion and Entertainment

Sports and Fitness

Medical

Transportation

Protection and Military

Architecture

Smart Textiles Regional Outlook:

North America

Europe

Asia Pacific

RoW

Contents

CHAPTER 1 EXECUTIVE SUMMARY

1.1 Smart Textiles - Industry Summary & Critical Success Factors (CSFs)

CHAPTER 2 SMART TEXTILES INDUSTRY OUTLOOK

2.1 Market Segmentation

2.2 Market Size and Growth Prospects

2.3 Smart Textiles Value Chain Analysis

2.4 Smart Textiles Market Dynamics

2.5 Key Opportunities Prioritized

2.6 Industry Analysis - Porter's

2.7 Smart Textiles - Company Market Share Analysis

2.8 Smart Textiles - PESTEL Analysis

CHAPTER 3 SMART TEXTILES END-USE OUTLOOK

3.1 Fashion and Entertainment

3.2 Sports and Fitness

3.3 Medical

3.4 Transportation

3.5 Protection and Military

3.6 Architecture

CHAPTER 4 SMART TEXTILES REGIONAL OUTLOOK

4.1 North America

4.2 Europe

4.3 Asia Pacific

4.4 RoW

CHAPTER 5 SMART TEXTILES COMPETITIVE LANDSCAPE

5.1 Textronics

5.1.1 Company Overview

5.1.2 Financial Performance

5.1.3 Product Benchmarking

- 5.1.4 Strategic Initiatives
- 5.2 Ohmatex ApS
 - 5.2.1 Company Overview
 - 5.2.2 Financial Performance
 - 5.2.3 Product Benchmarking
 - 5.2.4 Strategic Initiatives
- 5.3 Clothing+
 - 5.3.1 Company Overview
 - 5.3.2 Financial Performance
 - 5.3.3 Product Benchmarking
 - 5.3.4 Strategic Initiatives
- 5.4 Infineon Technologies
 - 5.4.1 Company Overview
 - 5.4.2 Financial Performance
 - 5.4.3 Product Benchmarking
 - 5.4.4 Strategic Initiatives
- 5.5 Weartech
 - 5.5.1 Company Overview
 - 5.5.2 Financial Performance
 - 5.5.3 Product Benchmarking
 - 5.5.4 Strategic Initiatives
- 5.6 Texas Instruments
 - 5.6.1 Company Overview
 - 5.6.2 Financial Performance
 - 5.6.3 Product Benchmarking
 - 5.6.4 Strategic Initiatives
- 5.7 Eleksen
 - 5.7.1 Company Overview
 - 5.7.2 Financial Performance
 - 5.7.3 Product Benchmarking
 - 5.7.4 Strategic Initiatives
- 5.8 Peratech Ltd.
 - 5.8.1 Company Overview
 - 5.8.2 Financial Performance
 - 5.8.3 Product Benchmarking
 - 5.8.4 Strategic Initiatives
- 5.9 Mide Technology Corporation
 - 5.9.1 Company Overview
 - 5.9.2 Financial Performance

- 5.9.3 Product Benchmarking
- 5.9.4 Strategic Initiatives
- 5.10 Fibretronic Limited
 - 5.10.1 Company Overview
 - 5.10.2 Financial Performance
 - 5.10.3 Product Benchmarking
 - 5.10.4 Strategic Initiatives
- 5.11 Exo2
 - 5.11.1 Company Overview
 - 5.11.2 Financial Performance
 - 5.11.3 Product Benchmarking
 - 5.11.4 Strategic Initiatives
- 5.12 ThermoSoft International
 - 5.12.1 Company Overview
 - 5.12.2 Financial Performance
 - 5.12.3 Product Benchmarking
 - 5.12.4 Strategic Initiatives
- 5.13 VivoMetrics
 - 5.13.1 Company Overview
 - 5.13.2 Financial Performance
 - 5.13.3 Product Benchmarking
 - 5.13.4 Strategic Initiatives
- 5.14 Sensium Healthcare
 - 5.14.1 Company Overview
 - 5.14.2 Financial Performance
 - 5.14.3 Product Benchmarking
 - 5.14.4 Strategic Initiatives
- 5.15 Gentherm
 - 5.15.1 Company Overview
 - 5.15.2 Financial Performance
 - 5.15.3 Product Benchmarking
 - 5.15.4 Strategic Initiatives
- 5.16 Auxetix
 - 5.16.1 Company Overview
 - 5.16.2 Financial Performance
 - 5.16.3 Product Benchmarking
 - 5.16.4 Strategic Initiatives

CHAPTER 6 METHODOLOGY AND SCOPE

6.1 Research Methodology

6.2 Research Scope & Assumption

6.3 List of Data Sources

List Of Tables

LIST OF TABLES

1. Global smart textiles market revenue, 2012 - 2020
2. Global smart textiles market revenue by region 2012 - 2020 (USD Million)
3. Global smart textiles market revenue by end-use 2012 - 2020 (USD Million)
4. Global smart textiles market demand for fashion & entertainment (Revenue), 2012 - 2020
5. Global smart textiles market demand for fashion & entertainment by region (Revenue), 2012 - 2020
6. Global smart textiles market demand for sports & fitness (Revenue), 2012 - 2020
7. Global smart textiles market demand for sports & fitness by region (Revenue), 2012 - 2020
8. Global smart textiles market demand for medical application (Revenue), 2012 – 2020
9. Global smart textiles market demand for medical application by region (Revenue), 2012 - 2020
10. Global smart textiles market demand for transportation (Revenue), 2012 - 2020
11. Global smart textiles market demand for transportation by region (Revenue), 2012 - 2020
12. Global smart textiles market demand for protection & military (Revenue), 2012 - 2020
13. Global smart textiles market demand for protection & military by region (Revenue), 2012 - 2020
14. Global smart textiles market demand for architecture (Revenue), 2012 - 2020
15. Global smart textiles market demand for architecture by region (Revenue), 2012 - 2020
16. North America smart textiles market by end-use 2012 - 2020 (USD Million)
17. Europe smart textiles market by end-use, 2012 - 2020 (USD Million)
18. Asia Pacific smart textiles market by end-use 2012 - 2020 (USD Million)
19. RoW smart textiles market by end-use 2012 - 2020 (USD Million)

List Of Figures

LIST OF FIGURES

1. Smart Textiles - Industry Summary & Critical Success Factors (CSFs)
2. Smart textiles market segmentation
3. Global smart textiles market revenue, 2012 - 2020
4. Smart textiles value chain analysis
5. Smart textiles market dynamics
6. Smart textiles company market share analysis, 2012
7. Key opportunities prioritized
8. Industry analysis - Porter's
9. Smart textiles PESTEL analysis, 2012
10. Smart textiles market revenue share by end-use, 2012 & 2020
11. Global smart textiles market demand for fashion & entertainment (Revenue), 2012 - 2020
12. Global smart textiles market demand for sports & fitness (Revenue), 2012 - 2020
13. Global smart textiles market demand for medical application (Revenue), 2012 - 2020
14. Global smart textiles market demand for transportation (Revenue), 2012 - 2020
15. Global smart textiles market demand for protection & military (Revenue), 2012 - 2020
16. Global smart textiles market demand for architecture (Revenue), 2012 - 2020
17. Smart textiles market revenue share by region, 2012 & 2020
18. North America smart textiles market, by end-use, 2012
19. Europe smart textiles market, by end-use, 2012
20. Asia Pacific smart textiles market, by end-use, 2012
21. RoW smart textiles market, by end-use, 2012
22. Global smart textiles market - Competitive landscape
23. Research methodology
24. List of data sources
25. Research scope & assumptions
26. Disclaimer

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