

Smart Textiles Market Report for M&A, Expansion, and Competitive Benchmarking (2025–2034)

The Business Research Company's Smart Textiles Global Market Report 2025 – Market Size, Trends, And Global Forecast 2025-2034

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Smart Textiles Global Market Report 2025

What Is The Growth Trajectory Of The [Smart Textiles Market](#)?

The smart textiles market size has surged significantly in recent years, expanding from a valuation of \$5.78 billion in 2024 to a projected \$7.52 billion in 2025. This impressive market development, indicative of a compound annual growth rate CAGR of 30.2%, is primarily due to the robust economic performance of emerging markets, amplified internet accessibility, an upsurge in the millennial population, the prevalence of low interest rates, and increased urbanization.

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What Does The Future Hold For The Smart Textiles Market?

The upcoming years are set to witness exponential growth in the smart textiles market size. By 2029, the market is expected to reach \$20.76 billion, growing at a CAGR of 28.9%. Key factors spurring this growth include the expanding E-commerce sector, growing demand for sportswear, increased adoption of 5G networks, a rising global population, and the advent of the Internet of Things IoT. The forecast period will also see major trends such as the focus on smart fabric technology, the emergence of wearable tele-rehabilitation platforms, technological advancements, digital testing, new product launches, and innovative smart garments.

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What Are The Propulsion Factors Behind The [Smart Textiles Market Growth](#)?

A surge in the demand for smart wearable devices is expected to be a major propellant for the smart textiles market. These devices, which are electronic and microprocessor-powered, can be integrated into clothing, worn as accessories, or even implanted in the body to transmit and receive data via the internet. They encompass smart jackets, smart glasses, smart shirts, smart jewelry, smart watches, among others. These smart wearable devices are becoming increasingly popular as they provide real-time information about the user's well-being. They represent the future of portable energy systems, high-tech sportswear, health monitoring systems, workwear, and military camouflages.

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Who Holds The Reins In The Smart Textiles Market?

Key players navigating the smart textiles market include esteemed companies like Koninklijke Ten Cate NV, Schoeller Textil AG, Eeonyx Corporation, Tex-Ray Industrial Co. Ltd, AiQ Smart Clothing Inc, Sensoria Inc, Noble Biomaterials, Interactive Wear AG, MitsuFuji Corporation, Xenoma Inc, Welspun India Ltd, Teijin Frontier Co. Ltd., GPOWERTECH CO. LTD, Nextiles, Fibrofill inc., Adidas AG, Clothing+, Ohmatex A/S, Siren, Centre for Process Innovation Limited CPI, Hi-Tec Sports, Vaxess Technologies, FPC Industry, Nanowear, Express Embroidery, Stedfast Inc, Tricot Carol Inc, Lomar, Gulf Denim, Naseej Textile, Ultra Design Studios, Texel Inc., and Smart textiles LLC.

What Are The Emerging Trends In The Smart Textiles Market?

To keep ahead in the competitive landscape, these key industry players are continuously focusing on product innovation and development of new technologies. One such example is the blockchain technology, used to enhance supply chain transparency, traceability, and security. This technology not only ensures the authenticity of materials used but also significantly improves the overall sustainability of textile production.

How Is The Smart Textiles Smart Textiles Market Segregated?

The smart textiles market covered in the report sees delineation into several segments and sub-segments:

1. By Type: Passive, Active, and Ultra-smart.

Passive includes fabrics with embedded sensors for monitoring, moisture-wicking fabrics and UV protection textiles.

Active covers heating textiles, textiles that shift color or shape based on stimuli, and wearable technology with integrated electronics.

Ultra-smart encompasses textiles with advanced functionalities, fabrics that can communicate with other devices, and self-adaptive textiles that adjust properties based on environmental

conditions.

2. By Function: Energy Harvesting, Sensing, Thermoelectrical, Luminescent, and Other Functions.

3. By End Users: Fashion and Entertainment, Sports and Fitness, Medical, Automotive, Protection and Military, Architecture, and Other End Users.

What Is The Geographic Distribution Of The Smart Textiles Market?

America held the largest region in the smart textiles market in 2024. Other regions covered in the smart textiles market report include Asia-Pacific, Western Europe, Eastern Europe, South America, Middle East, and Africa. Additionally, specific countries such as Australia, Brazil, China, France, Germany, India, Indonesia, Japan, Russia, South Korea, UK, USA, Italy, Spain, and Canada are included in the report.

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