

# Smart Textile Market Expected to Reach USD 4.72 Billion by 2020

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BANGALORE, INDIA, September 30, 2015 /EINPresswire.com/ -- Textiles that are adaptable and have the ability to react to stimuli from electrical, thermal, chemical, mechanical, magnetic sources, and sports and fitness activities are known as [smart textiles](#). Electronic devices such as fitness belts, and watches to monitor health and body vitals in real time can work on integration with smart textiles.

With an estimated total value of \$759 million in 2014, the global smart textile market is expected to reach USD 4.72 Billion by 2020 and will grow at a CAGR of 33.58% between 2015 and 2020. While the market in the sports and fitness segment is expected to grow at the highest CAGR of 40.30% between 2015 and 2020, the smart textiles market is expected to be dominated by the military and protection sector which would account for more than 27% of the total market.

Applications such as architecture, fashion and entertainment, transportation, medical, and military and security can make use of smart textiles. In fact, 25% of the overall revenue for smart textiles was got from protection and military requirements in 2014.

The military sector is one of the prime market segments where there is an anticipated growth in smart textiles. To meet the rising demand for equipping materials in the military sector, the integration of fabrics with electronics produces new products. This is required in the use of heavy batteries in garments worn by the soldiers are replaced with smart textiles. It is expected that there would be significant growth in the demand for integration of electronic components with materials and equipment used by the soldiers.

Soldiers of the future would have to carry and operate wireless weapons, heads-up display, chemical and biological threat detectors, Global Positioning Systems (GPS), chemical & biological threat detectors, battery power, combat ID sensors, and personal physiological status sensors to enable enhanced awareness and understanding which is expected to increase the demand for smart textiles. Another driver for the smart textile field included an increasing global population that has led to the need of improved healthcare and medical facilities in order to ensure faster patient recoveries and the need for enhancement of athletic performance.

The introduction of conductive materials and advanced fibers that are used in the manufacture are the drivers behind the rise in popularity, efficiency and demand of smart textiles. It is expected that in the forecast period, a key trend would be the use of nanotechnology which has helped in the creation of such smart fabric at microscopic level and the development of army uniforms and equipment.

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