

Graphene-enhanced Textiles Market Size, Share & Trends Analysis Report By Graphene Form (Graphene Oxide (GO), Reduced Graphene Oxide (rGO), Graphene Nanoplatelets (GNPs)), By Textile Material (Cotton, Polyester, Nylon), By End Use, By Region, And Segment Forecasts, 2026 - 2033

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Abstracts

The global graphene-enhanced textiles market size was valued at USD 346.5 million in 2025 and is projected to grow from USD 402.7 million in 2026 to USD 1,154.8 million by 2033, at a CAGR of 16.2% from 2026 to 2033. The market in Asia Pacific dominated with a revenue share of 39.3% in 2025. Graphene-enhanced textiles are gaining attention as advanced functional materials because graphene can impart electrical conductivity, thermal management, mechanical reinforcement, electromagnetic shielding, and sensing capabilities to conventional fabrics.

The integration of graphene and its derivatives into cotton, polyester, nylon, silk, and other textile substrates enables manufacturers to develop smart, multifunctional fabrics without fundamentally altering existing textile structures. Research has demonstrated scalable coating approaches such as pad-dry processes for producing conductive and washable graphene-based e-textiles.

A major driver for the graphene-enhanced textiles market is the rapid development of wearable electronics and smart textile systems. Graphene-coated fabrics can function as conductive pathways, sensors, heating elements, antennas, and other electronic components while retaining textile flexibility and comfort. Universities and research organizations have demonstrated graphene-based fabrics for activity monitoring, motion sensing, strain detection, and wearable electronic applications. Graphene can further

enhance mechanical strength and thermal performance, thereby increasing the functional value of conventional textile materials.

Technological innovation is shifting the market from laboratory-scale graphene textiles toward scalable functional textile production. Key developments include graphene nanoplatelet coatings, graphene oxide and reduced graphene oxide treatments, graphene-based conductive inks, fiber-level graphene functionalization, and printing technologies. Researchers have also demonstrated graphene textiles capable of maintaining conductivity after repeated washing, addressing one of the major barriers to commercialization. Emerging applications include flexible sensors, thermoregulating clothing, electromagnetic-shielding fabrics, conductive garments, wearable communication systems, and healthcare-monitoring textiles.

Global Graphene-enhanced Textiles Market Report Segmentation

This report forecasts revenue growth at the global, regional & country levels and provides an analysis of the industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the graphene-enhanced textiles market report based on graphene form, textile material, end use, and region:

Graphene Form Outlook (Revenue, USD Million, 2021 - 2033)

Graphene Oxide (GO)

Reduced Graphene Oxide (rGO)

Graphene Nanoplatelets (GNPs)

Others

Textile Material Outlook (Revenue, USD Million, 2021 - 2033)

Cotton

Polyester

Nylon

Others

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Healthcare

Sports & Fitness

Military & Defense

Fashion & Lifestyle

Others

Regional Outlook (Revenue, USD Million, 2021 - 2033)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Asia Pacific

China

Japan

India

South Korea

Latin America

Brazil

Middle East & Africa

Saudi Arabia

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