

Antimicrobial Textiles Market Report by Fabric (Polyester, Polyamide, Cotton, and Others), Active Agents (Metal and Metallic Salts, Synthetic Organic Compounds, Biobased Agents), Application (Medical Textiles, Home Textiles, Apparels, and Others), and Region 2025-2033

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Abstracts

The global antimicrobial textiles market size reached USD 11.8 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 19.2 Billion by 2033, exhibiting a growth rate (CAGR) of 5.31% during 2025-2033.

Antimicrobial textiles are functionally active textiles that destroy microorganisms or inhibit their growth. They are made by treating textile substrates with antimicrobial agents or using textile fiber with inherent antimicrobial efficiency. They are durable, environment friendly, and less prone to discoloration. Besides this, their antimicrobial properties assist in improving the performance and increasing the lifespan of different products. As a result, antimicrobial textiles find extensive applications in automotive textiles, air filters, food packaging, and water purification systems.

Antimicrobial Textiles Market Trends:

At present, there is a significant increase in the manufacturing of metal nanoparticles-based antiviral textiles, including face masks, gloves, and protective suits and shoes, on account of the coronavirus disease (COVID-19) outbreak. This, in confluence with the rising awareness among individuals about personal hygiene and the health risks associated with microorganisms, represents one of the key factors driving the market. Antimicrobial textiles are increasingly employed in the healthcare industry for hospital

gowns, patient clothes, curtains, bed covers, bandages, earbuds, scrubs, masks, lab coats, and protective kits. Besides this, they are used by sewage treatment plant workers and individuals involved in sanitary-related work wherein there is a high risk of getting infected. Additionally, antimicrobial textiles are utilized in common public areas, including hotels, restaurants, or trains. Apart from this, there is currently an increase in the demand for antimicrobial sportswear as they help prevent microbial growth and sweating odor. This, coupled with the growing popularity of antimicrobial winter wear, is augmenting the overall sales and profitability of market players. Furthermore, surface modification of these textiles, including electrospinning, nanotechnologies, plasma treatment, polymerization, microencapsulation, and sol-gel techniques to enhance their properties, is projected to fuel the market growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global antimicrobial textiles market report, along with forecasts at the global, regional and country level from 2025-2033. Our report has categorized the market based on fabric, active agents and application.

Breakup by Fabric:

Polyester

Polyamide

Cotton

Others

Breakup by Active Agents:

Metal and Metallic Salts

Synthetic Organic Compounds

Biobased Agents

Breakup by Application:

Medical Textiles

Home Textiles

Apparels

Others

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

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BioCote Limited, Herculite Products Inc., Kolon Industries Inc., Life Threads Global LLC, Microban International Ltd. (W.M. Barr & Company Inc.), Milliken & Company, PurThread Technologies Inc., Resil Chemicals Private Limited, Response Fabrics (India) Pvt. Ltd, Sanitized AG, Sono-Tek Corporation and Trevira GmbH (Indorama Ventures).

Key Questions Answered in This Report

- 1.What was the size of the global antimicrobial textiles market in 2024?
- 2.What is the expected growth rate of the global antimicrobial textiles market during 2025-2033?

- 3.What are the key factors driving the global antimicrobial textiles market?
- 4.What has been the impact of COVID-19 on the global antimicrobial textiles market?
- 5.What is the breakup of the global antimicrobial textiles market based on the fabric?
- 6.What is the breakup of the global antimicrobial textiles market based on the active agents?
- 7.What is the breakup of the global antimicrobial textiles market based on application?
- 8.What are the key regions in the global antimicrobial textiles market?
- 9.Who are the key players/companies in the global antimicrobial textiles market?

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