

# **Antimicrobial Medical Textiles Market Forecasts to 2034 – Global Analysis By Raw Material (Polyethylene Powder Coating, Polypropylene, Polyvinyl Chloride, Polyamide, Viscose and Other Raw Materials), Active Agent, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Antimicrobial Medical Textiles Market is accounted for \$1134.4 million in 2026 and is expected to reach \$2325.5 million by 2034 growing at a CAGR of 9.4% during the forecast period. Antimicrobial medical textiles refer to fabrics and materials that are treated or manufactured with substances designed to inhibit the growth of microorganisms, such as bacteria, viruses, and fungi. These textiles play a crucial role in maintaining a hygienic and infection-resistant environment, particularly in healthcare settings. The use of antimicrobial medical textiles provides several benefits, including the reduction of healthcare-associated infections (HAIs), improved patient safety, and the maintenance of a sterile environment in healthcare facilities.

According to recent research published by the World Trade Organization, imports and exports of medical goods increased by 16% and reached around US\$ 1,139 billion during the fourth quarter of 2020.

### **Market Dynamics:**

#### **Driver:**

Increasing demand for prevention of healthcare-associated infections (HAIs)

As healthcare facilities prioritize patient safety and infection control, there's a

heightened need for textiles with antimicrobial properties. This surge in demand reflects a growing awareness of the critical role textiles play in reducing the risk of infections. Manufacturers are innovating to meet these needs, developing advanced antimicrobial technologies and products. The market, driven by the imperative to combat HAIs, is witnessing sustained growth as healthcare professionals and institutions seek effective solutions to enhance hygiene standards in medical environments.

**Restraint:**

Potential development of microbial resistance

Prolonged exposure to specific antimicrobial agents may lead to the adaptation of microorganisms, reducing the effectiveness of these textiles over time. This resistance undermines the primary objective of preventing infections, raising concerns about the long-term viability of antimicrobial technologies. As microbial resistance gains attention, there is a need for continuous research and innovation to develop alternative agents and strategies hamper the growth of the market.

**Opportunity:**

Growing applications beyond traditional healthcare settings

The incorporation of these textiles in everyday consumer products, hospitality, and travel showcases a broader recognition of their infection prevention benefits. As antimicrobial textiles gain prominence in diverse sectors, the market experiences increased demand and growth. The versatility and efficacy of these textiles in various settings, beyond healthcare, reflect a paradigm shift in hygiene standards. This evolution not only caters to the healthcare industry but also aligns with the broader global focus on maintaining clean and safe environments in diverse contexts, fostering sustained market

**Threat:**

Lack of awareness among consumers

Without understanding the benefits and proper usage of these textiles, consumers may be reluctant to invest in them. This lack of awareness hinders the widespread acceptance of antimicrobial textiles in healthcare and other sectors. Educating

consumers about the infection prevention advantages, maintenance requirements, and long-term benefits of these textiles is essential. Increased awareness is not only crucial for market growth but also for fostering a broader understanding of the role antimicrobial textiles play in promoting hygiene and safety, ultimately influencing purchasing decisions in favour of these advanced textiles.

### Covid-19 Impact

The COVID-19 pandemic has intensified the demand for antimicrobial medical textiles. Healthcare facilities globally sought enhanced infection control measures, leading to increased adoption of these textiles in personal protective equipment, bedding, and patient care items. The urgency to curb virus transmission prompted innovation and research in antimicrobial technologies for textiles. Additionally, heightened awareness of hygiene and infection prevention has driven sustained interest in antimicrobial medical textiles beyond the pandemic, reshaping industry standards and preferences.

The polyethylene powder coating segment is expected to be the largest during the forecast period

The polyethylene powder coating segment is estimated to have a lucrative growth, as they enhance their durability and performance. The coating provides a protective layer, increasing resistance to wear and tear during repeated use and laundering. This not only extends the lifespan of the textiles but also maintains the effectiveness of their antimicrobial properties. The coating process adds a layer of impermeability, reducing the risk of microbial penetration and enhancing the overall efficacy of antimicrobial medical textiles, promoting a safer and more hygienic environment.

The quaternary ammonium salts segment is expected to have the highest CAGR during the forecast period

The quaternary ammonium salts segment is anticipated to witness the highest CAGR growth during the forecast period. Quaternary ammonium salts, applied to antimicrobial medical textiles, exert a potent antimicrobial effect. These salts disrupt microbial cell membranes, inhibiting the growth of bacteria and other pathogens on textile surfaces. The positively charged molecules interact with negatively charged microbial membranes, leading to membrane destabilization and cell death. This antimicrobial action enhances the textiles' ability to resist contamination, reducing the risk of healthcare-associated infections propel the growth of the market.

**Region with largest share:**

North America is projected to hold the largest market share during the forecast period owing to the limitations of current pharmacological therapies for the treatment and management of orthopedic, cardiovascular, ophthalmology, neurological, and other chronic conditions. Furthermore, as biotechnology continues to progress, new and improved products will be brought to market, which will further boost regional market growth.

**Region with highest CAGR:**

Asia Pacific is projected to have the highest CAGR over the forecast period, owing to increased governmental intervention in improving the healthcare facilities across the region. The market in Taiwan is estimated to witness significant growth owing to the increasing presence of major antimicrobial chemical manufacturers such as DuPont and TOYOBO, which are engaged in setting up manufacturing facilities in Taiwan. The presence of major yarn and fiber manufacturers in Taiwan is expected to boost the market growth.

**Key players in the market**

Some of the key players profiled in the Antimicrobial Medical Textiles Market include the Dow Chemical Company, Biocote Ltd., Herculite, Meditex Technology Ltd., Foss Manufacturing LLC, Noble Biomaterials, Biothreads LLC., Microban International, Trevira GmbH, Annovotek LLC, Purthread Technologies, Baltex, Vestagen Technical Textiles Inc., Quick-med Technologies Inc., Sciessent Technologies, Sinamen Zeomic Co. Ltd., Surgicotfab textile Pvt Ltd. and Sono-Tek Corporation

**Key Developments:**

In December 2023, Dow introduces a range of reduced carbon caustic soda products powered by renewable energy. Caustic DEC and TRACELIGHT™ DEC, part of Dow's Decarbia™ portfolio of reduced-carbon solutions, with up to 90% lower carbon dioxide\*.

In October 2023, Dow and Evonik announced the successful start-up and operation of a pioneering hydrogen peroxide to propylene glycol (HPPG) pilot plant at Evonik's site in Hanau, Germany.

In August 2023, Herculite Partners with Renegade Plastics to Offer Recyclable Barn

Curtain. The Renegade Plastics fabric used in Herculite's line of eco-friendly barn curtains is a medium-duty polypropylene-based coated fabric free from phthalates, dioxins, PFAS, and heavy metals like lead.

#### Raw Materials Covered:

Polyethylene Powder Coating

Polypropylene

Polyvinyl Chloride

Polyamide

Viscose

Other Raw Materials

#### Active Agents Covered:

Quaternary Ammonium Salts

Triclosan

Metal & Metallic Salts

Bio-Based Agents

Other Active Agents

#### Applications Covered:

Extracorporeal Devices

Healthcare & Hygiene Products

Implantable Materials

Non-Implantable Materials

Other Applications

End Users Covered:

Surgical Centers

Veterinary Clinics

Hospitals & Healthcare Facilities

Nursing Homes & Long-Term Care Facilities

Home Healthcare

Laboratories

Other End Users

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

**What our report offers:**

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

**Free Customization Offerings:**

All the customers of this report will be entitled to receive one of the following free customization options:

**Company Profiling**

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

**Regional Segmentation**

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

**Competitive Benchmarking**

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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