

# **Biomedical Textiles Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Fibre Type (Non-Biodegradable Fibre and Biodegradable Fibre), By Fabric Type (Non-Woven Fabric, Woven Fabric, Others), By Application (Non-Implantable, Surgical Suture, Others), By Region and Competition**

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## **Abstracts**

Global Biomedical Textiles Market stood at USD14.89 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 6.45% through 2028. Biomedical textiles are fibrous textiles designed for use in medical and biological applications. These textiles play a crucial role in first aid, surgery, and maintaining a disinfected environment. Their performance relies on their biocompatibility with living tissue and fluids. Biomedical textiles possess specific properties such as chemical inertness, sterility, non-allergenicity, biocompatibility, flexibility, and non-toxicity. They find applications in various fields including Dentistry, Surgery, Neurology, and Cardiology. Additionally, biomedical textiles contribute to the production of surgical sutures, tissue implants, and artificial organs.

Over the past few decades, the production of medical textiles, their materials, and manufacturing techniques have undergone significant advancements. Biomedical implants are utilized to support or replace damaged tissues and organs. These materials play a vital role in influencing the body's repair process, whether in wound closure through sutures or in replacement surgeries involving vascular grafts or artificial ligaments. While transplantation is a natural method to replace a defective body part, it may not always be feasible due to various reasons. In such cases, doctors resort to the use of artificial substitutes, also known as biomaterials, such as fibers. A foreign or

synthetic material used to partially replace a body part is referred to as a prosthesis, with artificial knees and hips being examples familiar to most.

The key characteristic of biomedical textiles is their ability to fulfill their intended purpose. For instance, sutures may require biodegradable textiles, while artificial ligaments are designed to be permanent and may interact more strongly with blood cells and surrounding tissue compared to external bandages, which are temporary and only contact the outer skin tissue. Implantable devices must be biocompatible, and biocompatibility testing evaluates the response of the host system to medical textiles. The results of these tests should be considered in conjunction with the advantages offered by the specific device.

One of the major driving factors for the biomedical textiles market is the increasing elderly population worldwide. Age-related physiological changes make older individuals more susceptible to orthopedic, cardiovascular, spinal, and eye diseases. Many of these conditions can be effectively treated through surgical techniques, leading to a higher demand for surgical interventions. According to a report by the Centers for Disease Control and Prevention (CDC), falls are treated in emergency departments for approximately 27 million elderly patients in the United States alone each year. With age, declining cell function reduces the body's ability to seal and heal wounds, making chronic lesions like pressure ulcers relatively common among older individuals. Sutures, implants, and wound care products are often required by the elderly population, further driving the demand for biomedical textiles as the population continues to age.

The biomedical textiles market also benefits from the use of advanced materials that are resistant to various bacteria, fungi, fire, dirt, and water. Developing these substances requires extensive research and development to provide specialized products that meet healthcare specifications. Similar to the production of high-quality fabrics, research and development costs for biomedical textiles are high due to labor, technology, and associated expenses. Additionally, the production of these materials necessitates efficient machinery, state-of-the-art technology, and suitable raw materials.

Moreover, the raw materials used in antimicrobial biomedical textiles contain significant amounts of fiber aggregates and antimicrobial agents such as silver, copper, and quaternary ammonium. The manufacturing process for these textiles is complex and requires market participants to ensure the production of high-quality fibers. As a result, the high research and development costs associated with these textiles act as a restraint on market growth.

Furthermore, the emergence of smart biomedical textiles has introduced wearable materials that incorporate semiconductors and sensors into the fabric. These textiles are utilized in patient clothing to monitor coronary charge, blood pressure, pulse, body temperature, respiratory rate, humidity, and pH levels, enabling comprehensive health screening.

As the demand for biomedical textiles continues to rise, the industry faces the challenge of meeting evolving healthcare needs by providing innovative and specialized solutions. Extensive research, development, and investment in advanced technologies and raw materials are essential for driving the growth and progress of this dynamic sector.

## Key Market Drivers

### Advancements in Medical Textiles

Biomedical textiles are materials specifically designed to be used in specific biological environments, where their exceptional performance can lead to significant medical benefits. These advanced textiles find applications in a wide range of areas, including wound care, implantable devices, extracorporeal devices, and healthcare and hygiene products.

Innovation has always been the driving force behind the biomedical textiles industry. Scientists and manufacturers are constantly pushing boundaries to develop new materials and technologies that can revolutionize patient outcomes and enhance the delivery of healthcare services.

In recent years, we have witnessed remarkable advancements in medical textiles, particularly with the introduction of smart or intelligent textiles. These innovative materials are equipped with sensors and other electronic components that enable them to monitor patients' health conditions, administer drugs, or even respond to environmental changes.

For instance, groundbreaking research has led to the development of bandages made from biomedical textiles that possess the remarkable ability to detect infections and release antibiotics precisely when needed. Such revolutionary innovations not only enhance patient care but also alleviate the burden on healthcare professionals.

Moreover, nanotechnology has played a pivotal role in propelling the field of medical textiles forward. By manipulating materials at the atomic level, scientists have been able

to create textiles with exceptional properties, such as enhanced strength, improved biocompatibility, and advanced drug delivery capabilities.

For example, nanofibers are now being utilized to create scaffolds for tissue engineering, offering newfound hope for patients who require organ transplants. Simultaneously, nanoparticles are being incorporated into wound dressings to expedite healing and prevent infections.

Looking ahead, the future of biomedical textiles appears incredibly promising. As research continues and technology advances, we can expect to witness even more groundbreaking applications for these remarkable materials.

The development of biodegradable biomedical textiles holds the potential to revolutionize the industry by eliminating the need for surgical removal once their purpose has been fulfilled. Similarly, the integration of artificial intelligence and machine learning could pave the way for the creation of 'smart' medical textiles that possess the ability to predict and promptly respond to patients' needs in real-time.

### Growth in Chronic Ailments

Chronic diseases, such as heart disease, diabetes, and cancer, are on the rise worldwide. This increase can be attributed to various factors, including aging populations, sedentary lifestyles, unhealthy dietary habits, and exposure to environmental pollutants. As the global population continues to grow and age, the burden of chronic illnesses is expected to escalate further.

The growing prevalence of chronic diseases necessitates innovative healthcare solutions that can effectively manage and treat these conditions. This is where biomedical textiles come into play. Biomedical textiles, encompassing a wide range of applications including implantable devices, wound care products, and extracorporeal devices, have emerged as essential components in the management and treatment of chronic ailments.

For instance, biomedical textiles are utilized in the fabrication of artificial arteries, heart valves, and orthopedic implants, providing critical support and functionality for patients with various chronic conditions. These advanced materials not only enhance patient outcomes but also contribute to improving the overall quality of life for individuals living with chronic diseases.

To meet the growing demand for more personalized and responsive healthcare solutions, there has been a surge in the development of smart biomedical textiles. These innovative materials are embedded with sensors and actuators that can monitor health conditions, deliver targeted medications, and respond to changes in a patient's condition. This integration of technology with biomedical textiles offers immense potential for the management and treatment of chronic diseases, paving the way for more proactive and efficient healthcare approaches.

Furthermore, the rise in chronic diseases has also spurred advancements in the field of nanotechnology within the biomedical textiles industry. Nanofibers and nanoparticles are being incorporated into these textiles to enhance their properties and capabilities, such as improved strength, flexibility, and drug delivery efficiency. These nano-enhanced biomedical textiles provide even more effective solutions for chronic disease management, enabling precise and targeted interventions.

In conclusion, the global biomedical textiles market is being driven by the growing prevalence of chronic diseases. As the burden of these conditions continues to rise, there is an increasing demand for advanced and innovative solutions like biomedical textiles. These materials play a crucial role in modern healthcare, offering not only improved patient outcomes but also the potential for future growth and development. By continually pushing the boundaries of technology and innovation, biomedical textiles have the power to revolutionize the way we manage and treat chronic diseases, ultimately improving the lives of millions of individuals worldwide.

## Key Market Challenges

### Growth in Ethical and Environmental Concerns

Ethical issues in the biomedical textiles market are multifaceted, encompassing various aspects such as labor practices and human rights in the supply chain. The textile and clothing industry, historically, has faced criticism for its association with poor working conditions and labor rights violations. As consumers, regulators, and advocacy groups increasingly scrutinize these practices, companies operating in the biomedical textiles market are under mounting pressure to ensure ethical standards throughout their operations.

Another significant concern is the environmental impact of biomedical textiles. The production process for these materials often requires substantial resources and generates significant waste, contributing to environmental degradation. Additionally, the

lack of recyclability in many biomedical textiles poses challenges for waste management once these products reach the end of their lifecycle.

The issue of sustainability is particularly pressing in the context of fast fashion, where the rapid turnover of products exacerbates environmental problems. Although the biomedical textiles market differs from the fashion industry, it also faces similar expectations to reduce its environmental footprint. Implementing sustainable practices and exploring innovative solutions are crucial for addressing these challenges and promoting a more sustainable future in the biomedical textiles industry.

## Key Market Trends

### Incorporation of Nanotechnology and Biomaterials

Nanotechnology has revolutionized the field of biomedical textiles, opening up new frontiers and pushing the boundaries of what is possible. By manipulating materials at the molecular level, nanotechnology enables the creation of textiles with exceptional properties such as superior strength, durability, and biocompatibility.

Another significant trend in the biomedical textiles market is the emergence of biomaterials, which hold great promise for various healthcare applications. These biomaterials, derived from natural sources, are embedded with nanoparticles and have been extensively studied for their potential in biomedical applications.

One example of successful integration is the combination of carbonaceous nanomaterials (CNMs) with biomaterials. This integration has resulted in a new class of CNMs-integrated biomaterials that exhibit enhanced properties, paving the way for advanced solutions in critical areas such as wound care, implantable devices, and tissue engineering.

The integration of nanotechnology and biomaterials sets the stage for the next generation of biomedical textiles. These advancements not only drive market growth but also open up exciting avenues for further research and development, fueling innovation and improving healthcare outcomes.

However, as the market continues to evolve, it becomes crucial for manufacturers and researchers to address potential challenges. Ethical considerations, environmental impact, and regulatory compliance must be taken into account to ensure sustainable growth in the biomedical textiles industry.

In conclusion, the integration of nanotechnology and biomaterials is a key trend shaping the global biomedical textiles market. This trend, driven by ongoing research and technological advancements, holds immense potential for the future of healthcare, offering groundbreaking solutions and improving the lives of countless individuals.

## Segmental Insights

### Fabric Type Insights

Based on the category of fabric type, the Non-Woven Fabric segment emerged as the dominant player in the global market for Biomedical Textiles in 2022. Non-woven fabric delivers critical safety properties, such as prevention against infections and diseases, as they help to fight against cross-contamination and the spread of infection in medical or surgical environments. Their unique composition and structure make them highly effective in creating a barrier that hinders the transmission of harmful pathogens.

In addition, nonwovens are increasingly being used in the design of smart wound care products, revolutionizing the way we treat wounds. These advanced non-woven materials offer a range of functions, including promoting moist wound healing environments, reducing skin adhesion for painless removal, and controlling vapor transmission to optimize healing conditions.

The versatility of non-woven fabrics is evident in their wide range of applications. They are commonly used in surgical dressings, bandages, and implant applications, providing a sterile and protective environment for patients. Moreover, the biomedical field has embraced the use of non-woven fabrics in various forms, such as sheets, tubes, gowns, face masks, scrub suits, shoe covers, head covers, sponges, wipes, and plugs. These innovative products have paved the way for improved patient care and enhanced infection control protocols.

Compared to traditional woven fabrics, nonwovens offer several advantages that contribute to their increasing adoption in healthcare applications. They are more adaptable, allowing for customized designs and tailored solutions that meet specific medical requirements. Non-woven fabrics are also cost-effective, providing an affordable option without compromising on safety or quality. Their disposable nature eliminates the need for complex sterilization processes, saving time and resources. Moreover, non-woven are highly efficient in their functionality, offering superior performance and reliability in critical healthcare settings.

As the demand for advanced healthcare solutions continues to grow, non-woven fabrics remain at the forefront of innovation, driving the progress in infection prevention and patient care.

### Application Insights

The Non-Implantable segment is projected to experience rapid growth during the forecast period. The use of non-implantable products plays a crucial role in various aspects of healthcare. These products serve multiple purposes, including preventing the spread of infection, absorbing blood or exudates, and promoting healing. With the increasing number of surgeries and accidents, the demand for biomedical textiles in non-implantable products is on the rise. These products are applied externally to the body and do not require direct contact with the skin.

When it comes to non-implantable solid products, there is a wide range of options available. Bandages, orthopedic belts, plasters, gauze, wound care dressings, pressure garments, and others are used to protect against infection, absorb and exude blood and excess fluid, and facilitate the healing process. The versatility and strength provided by biomedical textiles have led to their increasing applications in these non-implantable products.

Furthermore, the growing prevalence of diabetes and the rise in home healthcare services have contributed to an increased demand for wound care management products and the use of biomedical textiles. As the diagnosis of diabetes continues to surge, there is a greater need for effective wound care solutions, which further highlights the importance of biomedical textiles in this field.

Overall, the utilization of biomedical textiles in non-implantable products is instrumental in ensuring better healthcare outcomes and improving patient well-being.

### Regional Insights

Asia Pacific emerged as the dominant player in the Global Biomedical Textiles Market in 2022, holding the largest market share in terms of value. The increase in chronic wounds and surgical procedures has contributed to the growth of the market. Moreover, the healthcare industry in developing countries like India and China has witnessed rapid expansion, further driving the revenue growth. In 2020, healthcare expenditures in India and China reached USD 194 billion and USD 1.06 trillion, respectively, highlighting the



significant investment in healthcare. Additionally, the use of biomedical textiles in various surgical procedures, including orthopedics, neurovascular, cardiovascular, and general surgery, has been steadily increasing in this region. This growing adoption of biomedical textiles is expected to play a crucial role in driving the market's revenue growth.

### Key Market Players

Swicofil AG

DSM BV

Cortland Biomedical

Poly-Med Incorporated

Bally Ribbon Mills, Inc.

Atex Technologies Inc.

Medline Industries Inc.

B. Braun Melsungen AG

Integra Lifesciences Corporation

Elkem ASA

### Report Scope:

In this report, the Global Biomedical Textiles Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Biomedical Textiles Market, By Fibre Type:

Non-Biodegradable Fibre

Biodegradable Fibre

**Biomedical Textiles Market, By Fabric Type:**

Non-Woven Fabric

Woven Fabric

Others

**Biomedical Textiles Market, By Application:**

Non-Implantable

Surgical Suture

Others

**Biomedical Textiles Market, By Region:**

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

## Asia-Pacific

China

India

Japan

Australia

South Korea

## South America

Brazil

Argentina

Colombia

## Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkey

Egypt

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Biomedical Textiles Market.

### Available Customizations:

Global Biomedical Textiles Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

#### Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### **4. GLOBAL BIOMEDICAL TEXTILES MARKET OUTLOOK**

- 4.1. Market Size & Forecast
  - 4.1.1. By Value
- 4.2. Market Share & Forecast
  - 4.2.1. By Fibre Type (Non-Biodegradable Fibre and Biodegradable Fibre)
  - 4.2.2. By Fabric Type (Non-Woven Fabric, Woven Fabric, Others)
  - 4.2.3. By Application (Non-Implantable, Surgical Suture, Others)
  - 4.2.4. By Region
  - 4.2.5. By Company (2022)
- 4.3. Market Map

- 4.3.1. By Fibre Type
- 4.3.2. By Fabric Type
- 4.3.3. By Application
- 4.3.4. By Region

## **5. ASIA PACIFIC BIOMEDICAL TEXTILES MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Fibre Type
  - 5.2.2. By Fabric Type
  - 5.2.3. By Application
  - 5.2.4. By Country
- 5.3. Asia Pacific: Country Analysis
  - 5.3.1. China Biomedical Textiles Market Outlook
    - 5.3.1.1. Market Size & Forecast
      - 5.3.1.1.1. By Value
    - 5.3.1.2. Market Share & Forecast
      - 5.3.1.2.1. By Fibre Type
      - 5.3.1.2.2. By Fabric Type
      - 5.3.1.2.3. By Application
  - 5.3.2. India Biomedical Textiles Market Outlook
    - 5.3.2.1. Market Size & Forecast
      - 5.3.2.1.1. By Value
    - 5.3.2.2. Market Share & Forecast
      - 5.3.2.2.1. By Fibre Type
      - 5.3.2.2.2. By Fabric Type
      - 5.3.2.2.3. By Application
  - 5.3.3. Australia Biomedical Textiles Market Outlook
    - 5.3.3.1. Market Size & Forecast
      - 5.3.3.1.1. By Value
    - 5.3.3.2. Market Share & Forecast
      - 5.3.3.2.1. By Fibre Type
      - 5.3.3.2.2. By Fabric Type
      - 5.3.3.2.3. By Application
  - 5.3.4. Japan Biomedical Textiles Market Outlook
    - 5.3.4.1. Market Size & Forecast
      - 5.3.4.1.1. By Value

- 5.3.4.2. Market Share & Forecast
  - 5.3.4.2.1. By Fibre Type
  - 5.3.4.2.2. By Fabric Type
  - 5.3.4.2.3. By Application
- 5.3.5. South Korea Biomedical Textiles Market Outlook
  - 5.3.5.1. Market Size & Forecast
    - 5.3.5.1.1. By Value
  - 5.3.5.2. Market Share & Forecast
    - 5.3.5.2.1. By Fibre Type
    - 5.3.5.2.2. By Fabric Type
    - 5.3.5.2.3. By Application

## **6. EUROPE BIOMEDICAL TEXTILES MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value
- 6.2. Market Share & Forecast
  - 6.2.1. By Fibre Type
  - 6.2.2. By Fabric Type
  - 6.2.3. By Application
  - 6.2.4. By Country
- 6.3. Europe: Country Analysis
  - 6.3.1. France Biomedical Textiles Market Outlook
    - 6.3.1.1. Market Size & Forecast
      - 6.3.1.1.1. By Value
    - 6.3.1.2. Market Share & Forecast
      - 6.3.1.2.1. By Fibre Type
      - 6.3.1.2.2. By Fabric Type
      - 6.3.1.2.3. By Application
  - 6.3.2. Germany Biomedical Textiles Market Outlook
    - 6.3.2.1. Market Size & Forecast
      - 6.3.2.1.1. By Value
    - 6.3.2.2. Market Share & Forecast
      - 6.3.2.2.1. By Fibre Type
      - 6.3.2.2.2. By Fabric Type
      - 6.3.2.2.3. By Application
  - 6.3.3. Spain Biomedical Textiles Market Outlook
    - 6.3.3.1. Market Size & Forecast
      - 6.3.3.1.1. By Value

- 6.3.3.2. Market Share & Forecast
  - 6.3.3.2.1. By Fibre Type
  - 6.3.3.2.2. By Fabric Type
  - 6.3.3.2.3. By Application
- 6.3.4. Italy Biomedical Textiles Market Outlook
  - 6.3.4.1. Market Size & Forecast
    - 6.3.4.1.1. By Value
  - 6.3.4.2. Market Share & Forecast
    - 6.3.4.2.1. By Fibre Type
    - 6.3.4.2.2. By Fabric Type
    - 6.3.4.2.3. By Application
- 6.3.5. United Kingdom Biomedical Textiles Market Outlook
  - 6.3.5.1. Market Size & Forecast
    - 6.3.5.1.1. By Value
  - 6.3.5.2. Market Share & Forecast
    - 6.3.5.2.1. By Fibre Type
    - 6.3.5.2.2. By Fabric Type
    - 6.3.5.2.3. By Application

## **7. NORTH AMERICA BIOMEDICAL TEXTILES MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value
- 7.2. Market Share & Forecast
  - 7.2.1. By Fibre Type
  - 7.2.2. By Fabric Type
  - 7.2.3. By Application
  - 7.2.4. By Country
- 7.3. North America: Country Analysis
  - 7.3.1. United States Biomedical Textiles Market Outlook
    - 7.3.1.1. Market Size & Forecast
      - 7.3.1.1.1. By Value
    - 7.3.1.2. Market Share & Forecast
      - 7.3.1.2.1. By Fibre Type
      - 7.3.1.2.2. By Fabric Type
      - 7.3.1.2.3. By Application
  - 7.3.2. Mexico Biomedical Textiles Market Outlook
    - 7.3.2.1. Market Size & Forecast
      - 7.3.2.1.1. By Value



- 7.3.2.2. Market Share & Forecast
  - 7.3.2.2.1. By Fibre Type
  - 7.3.2.2.2. By Fabric Type
  - 7.3.2.2.3. By Application
- 7.3.3. Canada Biomedical Textiles Market Outlook
  - 7.3.3.1. Market Size & Forecast
    - 7.3.3.1.1. By Value
  - 7.3.3.2. Market Share & Forecast
    - 7.3.3.2.1. By Fibre Type
    - 7.3.3.2.2. By Fabric Type
    - 7.3.3.2.3. By Application

## **8. SOUTH AMERICA BIOMEDICAL TEXTILES MARKET OUTLOOK**

- 8.1. Market Size & Forecast
  - 8.1.1. By Value
- 8.2. Market Share & Forecast
  - 8.2.1. By Fibre Type
  - 8.2.2. By Fabric Type
  - 8.2.3. By Application
  - 8.2.4. By Country
- 8.3. South America: Country Analysis
  - 8.3.1. Brazil Biomedical Textiles Market Outlook
    - 8.3.1.1. Market Size & Forecast
      - 8.3.1.1.1. By Value
    - 8.3.1.2. Market Share & Forecast
      - 8.3.1.2.1. By Fibre Type
      - 8.3.1.2.2. By Fabric Type
      - 8.3.1.2.3. By Application
  - 8.3.2. Argentina Biomedical Textiles Market Outlook
    - 8.3.2.1. Market Size & Forecast
      - 8.3.2.1.1. By Value
    - 8.3.2.2. Market Share & Forecast
      - 8.3.2.2.1. By Fibre Type
      - 8.3.2.2.2. By Fabric Type
      - 8.3.2.2.3. By Application
  - 8.3.3. Colombia Biomedical Textiles Market Outlook
    - 8.3.3.1. Market Size & Forecast
      - 8.3.3.1.1. By Value

### 8.3.3.2. Market Share & Forecast

- 8.3.3.2.1. By Fibre Type
- 8.3.3.2.2. By Fabric Type
- 8.3.3.2.3. By Application

## **9. MIDDLE EAST AND AFRICA BIOMEDICAL TEXTILES MARKET OUTLOOK**

### 9.1. Market Size & Forecast

- 9.1.1. By Value

### 9.2. Market Share & Forecast

- 9.2.1. By Fibre Type
- 9.2.2. By Fabric Type
- 9.2.3. By Application
- 9.2.4. By Country

### 9.3. MEA: Country Analysis

#### 9.3.1. South Africa Biomedical Textiles Market Outlook

- 9.3.1.1. Market Size & Forecast
  - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share & Forecast
  - 9.3.1.2.1. By Fibre Type
  - 9.3.1.2.2. By Fabric Type
  - 9.3.1.2.3. By Application

#### 9.3.2. Saudi Arabia Biomedical Textiles Market Outlook

- 9.3.2.1. Market Size & Forecast
  - 9.3.2.1.1. By Value
- 9.3.2.2. Market Share & Forecast
  - 9.3.2.2.1. By Fibre Type
  - 9.3.2.2.2. By Fabric Type
  - 9.3.2.2.3. By Application

#### 9.3.3. UAE Biomedical Textiles Market Outlook

- 9.3.3.1. Market Size & Forecast
  - 9.3.3.1.1. By Value
- 9.3.3.2. Market Share & Forecast
  - 9.3.3.2.1. By Fibre Type
  - 9.3.3.2.2. By Fabric Type
  - 9.3.3.2.3. By Application

#### 9.3.4. Egypt Biomedical Textiles Market Outlook

- 9.3.4.1. Market Size & Forecast
  - 9.3.4.1.1. By Value

#### 9.3.4.2. Market Share & Forecast

- 9.3.4.2.1. By Fibre Type
- 9.3.4.2.2. By Fabric Type
- 9.3.4.2.3. By Application

### **10. MARKET DYNAMICS**

- 10.1. Drivers
- 10.2. Challenges

### **11. MARKET TRENDS & DEVELOPMENTS**

- 11.1. Recent Developments
- 11.2. Product Launches
- 11.3. Mergers & Acquisitions

### **12. GLOBAL BIOMEDICAL TEXTILES MARKET: SWOT ANALYSIS**

### **13. PORTER'S FIVE FORCES ANALYSIS**

- 13.1. Competition in the Industry
- 13.2. Potential of New Entrants
- 13.3. Power of Suppliers
- 13.4. Power of Customers
- 13.5. Threat of Substitute Product

### **14. COMPETITIVE LANDSCAPE**

- 14.1. Swicofil AG
  - 14.1.1. Business Overview
  - 14.1.2. Company Snapshot
  - 14.1.3. Products & Services
  - 14.1.4. Current Capacity Analysis
  - 14.1.5. Financials (In case of listed)
  - 14.1.6. Recent Developments
  - 14.1.7. SWOT Analysis
- 14.2. DSM BV
  - 14.2.1. Business Overview
  - 14.2.2. Company Snapshot

- 14.2.3. Products & Services
- 14.2.4. Current Capacity Analysis
- 14.2.5. Financials (In case of listed)
- 14.2.6. Recent Developments
- 14.2.7. SWOT Analysis
- 14.3. Cortland Biomedical
  - 14.3.1. Business Overview
  - 14.3.2. Company Snapshot
  - 14.3.3. Products & Services
  - 14.3.4. Current Capacity Analysis
  - 14.3.5. Financials (In case of listed)
  - 14.3.6. Recent Developments
  - 14.3.7. SWOT Analysis
- 14.4. Poly-Med Incorporated
  - 14.4.1. Business Overview
  - 14.4.2. Company Snapshot
  - 14.4.3. Products & Services
  - 14.4.4. Current Capacity Analysis
  - 14.4.5. Financials (In case of listed)
  - 14.4.6. Recent Developments
  - 14.4.7. SWOT Analysis
- 14.5. Bally Ribbon Mills, Inc.
  - 14.5.1. Business Overview
  - 14.5.2. Company Snapshot
  - 14.5.3. Products & Services
  - 14.5.4. Current Capacity Analysis
  - 14.5.5. Financials (In case of listed)
  - 14.5.6. Recent Developments
  - 14.5.7. SWOT Analysis
- 14.6. Atex Technologies Inc.
  - 14.6.1. Business Overview
  - 14.6.2. Company Snapshot
  - 14.6.3. Products & Services
  - 14.6.4. Current Capacity Analysis
  - 14.6.5. Financials (In case of listed)
  - 14.6.6. Recent Developments
  - 14.6.7. SWOT Analysis
- 14.7. Medline Industries Inc.
  - 14.7.1. Business Overview

- 14.7.2. Company Snapshot
- 14.7.3. Products & Services
- 14.7.4. Current Capacity Analysis
- 14.7.5. Financials (In case of listed)
- 14.7.6. Recent Developments
- 14.7.7. SWOT Analysis
- 14.8. B. Braun Melsungen AG
  - 14.8.1. Business Overview
  - 14.8.2. Company Snapshot
  - 14.8.3. Products & Services
  - 14.8.4. Current Capacity Analysis
  - 14.8.5. Financials (In case of listed)
  - 14.8.6. Recent Developments
  - 14.8.7. SWOT Analysis
- 14.9. Integra Lifesciences Corporation
  - 14.9.1. Business Overview
  - 14.9.2. Company Snapshot
  - 14.9.3. Products & Services
  - 14.9.4. Current Capacity Analysis
  - 14.9.5. Financials (In case of listed)
  - 14.9.6. Recent Developments
  - 14.9.7. SWOT Analysis
- 14.10. Elkem ASA
  - 14.10.1. Business Overview
  - 14.10.2. Company Snapshot
  - 14.10.3. Products & Services
  - 14.10.4. Current Capacity Analysis
  - 14.10.5. Financials (In case of listed)
  - 14.10.6. Recent Developments
  - 14.10.7. SWOT Analysis

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