

# **Biomaterial Wound Dressing Market Forecasts to 2030 – Global Analysis By Product Type (Foam Dressings, Hydrocolloid Dressings, Hydrogels, Film Dressings, Composite Dressings, and Other Product Types), Material Type, Distribution Channel, Application, End User and By Geography**

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## **Abstracts**

According to Statistics MRC, the Global Biomaterial Wound Dressing Market is accounted for \$6.28 billion in 2024 and is expected to reach \$10.20 billion by 2030 growing at a CAGR of 8.4% during the forecast period. Biomaterial Wound Dressing are advanced materials which are intended for wound healing and prevent infection. These dressings, which promote the body's healing processes, are composed of natural or synthetic biomaterials such silicone, collagen, chitosan, and alginates. They offer a barrier against germs, absorb exudate, and produce a moist environment. Biomaterial wound dressings, which offer faster healing times and less scarring than conventional wound care treatments, are frequently used for burns, chronic wounds, surgical wounds, and other traumas.

According to the National Diabetes Statistics Report updated in January 2022, around 37.3 million people in the United States have diabetes, which equates to around 11.3% of the total population.

Market Dynamics:

Driver:

Rising incidence of chronic wounds

As the population ages and diabetes and obesity rates rise, chronic wounds including diabetic foot ulcers, pressure ulcers, and venous leg ulcers are becoming more prevalent. These wounds frequently need specialized care and are challenging to cure. By preserving a moist environment, avoiding infection, and lessening scarring, biomaterial wound dressings—which comprise cutting-edge materials like collagen, hydrogels, and alginates—offer improved healing qualities. The need for efficient, cutting-edge wound care products, especially biomaterial dressings, is anticipated to expand sharply as the number of people with chronic illnesses keeps growing.

#### Restraint:

##### Lack of reimbursement policies

Compared to conventional wound care solutions, many new biomaterial dressings are more expensive despite providing better wound healing advantages. Patients and healthcare professionals may be hesitant to use these cutting-edge treatments in areas with limited or incomplete reimbursement schemes because of financial concerns. Individuals without full health coverage or those in developing markets may be most affected by this. The widespread use of biomaterial dressings is frequently restricted by the lack of reimbursement, which slows market growth and makes it more challenging for businesses to successfully enter price-sensitive markets.

#### Opportunity:

##### Growing demand for faster and efficient wound healing

Collagen-based, hydrocolloid, and hydrogel dressings are examples of advanced biomaterial dressings that decrease scarring, lower the risk of infection, and encourage quick tissue regeneration. By creating a moist wound environment, these dressings help patients heal more quickly and experience less discomfort. The demand for these cutting-edge solutions is being driven by healthcare professionals' use of biomaterial wound dressings, which not only speed up the healing process but also offer improved comfort and protection, as a result of the growing emphasis on improving patient outcomes and lowering healthcare costs.

#### Threat:

##### Limited product knowledge among healthcare providers

Many healthcare practitioners might not be completely aware of the benefits of modern wound care products, such as biomaterial dressings, or the correct administration procedures, despite the fact that these products offer substantial advantages like faster healing, infection control, and less scarring. This ignorance may lead to the underuse of these cutting-edge technologies, especially in areas where conventional wound care practices are still widely used. Increasing the use of biomaterial dressings and improving patient outcomes need educating healthcare professionals on their efficacy and appropriate usage, which will assist the market's overall expansion.

### Covid-19 Impact

The COVID-19 pandemic had a mixed impact on the biomaterial wound dressing market. While lockdowns and economic slowdowns initially disrupted supply chains and reduced demand in some sectors, the pandemic also highlighted the importance of wound care in healthcare settings. Increased focus on infection prevention and control measures, along with the surge in COVID-19 patients requiring medical attention, led to a temporary increase in demand for certain types of wound dressings. However, the overall impact varied depending on the specific type of dressing and regional market conditions.

The foam dressings segment is expected to be the largest during the forecast period

The foam dressings segment is expected to account for the largest market share during the forecast period. Foam dressings are ideal for managing moderate to heavy exudating wounds, as they efficiently absorb fluids while maintaining a moist wound environment, which accelerates healing. Their cushioning effect reduces pain and provides additional protection, making them a preferred choice for chronic wounds, surgical sites, and pressure ulcers. Additionally, their ease of application and removal contributes to their rising popularity in wound care.

The hospitals and clinics segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the hospitals and clinics segment is predicted to witness the highest growth rate, due to their high demand for advanced wound care solutions. These healthcare settings require effective, fast-healing products for patients with chronic wounds, surgical wounds, and burns. Biomaterial dressings offer superior benefits like infection control, faster healing times, and reduced complications. As

hospitals and clinics aim to improve patient outcomes and reduce healthcare costs, the adoption of biomaterial wound dressings, which provide optimal healing environments, is increasingly prioritized in these facilities.

Region with largest share:

During the forecast period, Asia Pacific region is expected to hold the largest market share, due to the rising prevalence of chronic wounds, burns, and diabetic-related conditions. Rapid urbanization, rising healthcare awareness and the expansion of healthcare infrastructure in countries like India and China are driving the demand for advanced wound care solutions. Additionally, the aging population in the region further contributes to the market growth, as elderly individuals are more prone to wounds that require effective treatment with biomaterial dressings for faster healing and infection control.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by high healthcare spending, advanced medical infrastructure, and a growing aging population. With an increasing prevalence of chronic wounds, diabetes, and surgical procedures, the demand for advanced wound care products is on the rise. The adoption of biomaterial dressings, which offer faster healing, infection prevention, and improved patient comfort, is growing across hospitals, clinics, and home care settings, positively influencing the market in North America.

Key players in the market

Some of the key players profiled in the Biomaterial Wound Dressing Market include 3M Health Care, Johnson & Johnson, Smith & Nephew, Medtronic, Molnlycke Health Care, ConvaTec Group, Coloplast, BSN Medical, Hollister Incorporated, Systagenix Wound Management, Derma Sciences, KCI, B. Braun Melsungen AG, Medi-USA, and Integra LifeSciences Corporation.

Key Developments:

In January 2025, Molnlycke Health Care, a world-leading MedTech company specialising in wound care solutions, announced an investment of USD 8 million in Siren. The healthcare tech company Siren is on a mission to help reduce the risk of diabetic foot ulcers by early detection of potential injuries through temperature-sensing

textile technology.

In January 2025, Johnson & Johnson strengthens neuroscience leadership with acquisition of intra-cellular therapies, Inc. Acquisition includes CAPLYTA® (lumateperone), the first and only U.S. FDA-approved treatment for bipolar I and II depression as an adjunctive and monotherapy; also approved for the treatment of schizophrenia in adults.

In December 2024, Smith+Nephew expands AETOS shoulder system with new stemless option for anatomic shoulder arthroplasty. Smith+Nephew announces it has received 510(k) clearance from the United States Food & Drug Administration for a stemless anatomic total shoulder for the AETOS Shoulder System (AETOS Stemless).

#### Product Types Covered:

Foam Dressings

Hydrocolloid Dressings

Hydrogels

Film Dressings

Composite Dressings

Other Product Types

#### Material Types Covered:

Collagen

Chitosan

Silicone

Hydrocolloid

Foam

Alginate

Other Material Types

Distribution Channels Covered:

Direct Sales

Retail Pharmacies

Online Sales

Hospitals and Healthcare Providers

Applications Covered:

Acute Wounds

Chronic Wounds

Traumatic Wounds

Other Applications

End Users Covered:

Hospitals and Clinics

Home Care Settings

Ambulatory Surgical Centers

Long-Term Care Facilities

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 2022, 2023, 2024, 2026, and 2030
- 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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