

Surgical Sealants and Adhesives Market Forecasts to 2032 – Global Analysis By Product Type (Surgical Sealants, Surgical Adhesives and Other Product Types), Form, Indication, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Surgical Sealants and Adhesives Market is accounted for \$3.61 billion in 2025 and is expected to reach \$8.15 billion by 2032 growing at a CAGR of 12.3% during the forecast period. Surgical sealants and adhesives are medical substances used to bind or seal tissues during surgical procedures. They strengthen the link between tissue surfaces, promoting healing, reducing bleeding, and assisting in wound closure. These materials, which can be made of natural or synthetic components, are versatile and can be used in reconstructive, gastrointestinal, and cardiovascular procedures. While adhesives offer long-lasting tissue connection, sealants frequently serve as barriers to stop fluid leaks.

According to the British Journal of Surgery report, in May 2020, around 48,728 surgical procedures per week were canceled in India, estimating about 585,000 surgical procedures for 12 weeks.

Market Dynamics:

Driver:

Increasing surgical procedures

The rising incidence of chronic illnesses like cancer and cardiovascular conditions, which frequently call for surgical procedures, is the main cause of this increase.

Furthermore, the aging of the world's population increases demand since it makes people more susceptible to illnesses that require surgery. The usage of sealants and adhesives has increased due to advancements in less invasive surgical methods, as they improve recovery and lower complications. Additionally, the market is growing as a result of enhanced access to surgical treatment and increased healthcare spending in emerging economies.

Restraint:

High cost of advanced products

Complex formulations, strict quality controls, and regulatory compliance requirements can make manufacturing these items costly, particularly those that use biocompatible materials or novel technology. These cutting-edge devices' high initial costs frequently prevent them from being widely available, especially in areas with tight budgets or for smaller healthcare practitioners. Due to the lower cost of traditional wound closure techniques like sutures or staples, this consideration may force hospitals and clinics to use them. Furthermore, the high price may discourage the broad use of more recent, efficient sealants and adhesives, which would hinder market expansion, especially in developing nations with limited healthcare resources.

Opportunity:

Rising demand for wound healing products

Advanced wound healing treatments are becoming more and more necessary as the world's population ages and the prevalence of chronic illnesses and surgical procedures rises. Surgical adhesives and sealants are essential for encouraging quicker healing, lowering the risk of infection, and decreasing post-operative scarring. These products are particularly helpful in complicated surgeries where tissue sealing is essential for healing, like orthopedic and cardiovascular treatments. Additionally, there is a greater focus on proper wound management as a result of the growing emphasis on improving patient outcomes and lowering healthcare costs, which is driving up demand for surgical sealants and adhesives.

Threat:

Complex application and training requirements

Depending on the type of surgery and tissue involved, these products frequently require precise application procedures to guarantee good adhesion, hemostasis, and tissue sealing. Adoption takes longer and costs more since surgeons and medical personnel need specific training to become proficient in these techniques. Furthermore, incorrect administration might affect patient outcomes by causing complications like infections or insufficient wound healing. Their widespread usage is made more difficult by the requirement for ongoing education and skill development as well as the variation in product compositions, which restricts market expansion in particular areas.

Covid-19 Impact:

The COVID-19 pandemic significantly impacted the surgical sealants and adhesives market, as elective surgeries were postponed or canceled globally to prioritize emergency care and conserve resources. This led to a temporary decline in demand for these products. However, the market witnessed a gradual recovery as healthcare systems adapted and surgical volumes rebounded post-lockdowns. The pandemic also highlighted the importance of advanced surgical solutions, including sealants and adhesives, in improving patient outcomes and reducing hospital stays, driving long-term growth prospects.

The surgical sealants segment is expected to be the largest during the forecast period

The surgical sealants segment is expected to account for the largest market share during the forecast period, due to the increasing volume of surgical procedures, driven by a rise in chronic diseases and an aging population, fuels demand. Additionally, advancements in minimally invasive surgeries and the need for effective hemostasis and tissue sealing contribute significantly. Technological innovations, particularly in biocompatible materials and biomimetic sealants, further expand applications and market growth. Furthermore, the focus on reducing post-surgical complications and improving patient recovery times enhances the adoption of these products.

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

Over the forecast period, the hospitals segment is predicted to witness the highest growth rate, due to their need for efficient, reliable hemostasis and tissue sealing during surgeries is paramount. Increased surgical volumes due to aging populations and chronic diseases drive demand. Hospitals prioritize minimizing post-operative complications and reducing patient recovery times, leading to greater adoption of advanced sealants. Furthermore, hospitals often participate in clinical trials and are

early adopters of new surgical technologies, influencing market trends and product development.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share, driven by rapidly growing aging population and rising prevalence of chronic diseases, increasing surgical procedure volumes. Expanding healthcare infrastructure and rising disposable incomes improve access to advanced medical treatments. Medical tourism and a growing focus on minimally invasive surgeries further accelerate demand. Additionally, increasing awareness about advanced wound care and hemostasis solutions boosts market growth.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, due to high adoption rates of minimally invasive surgeries. An aging population and rising chronic disease prevalence increase surgical demand. Stringent regulatory standards ensure high-quality, innovative products. Strong R&D investments and technological advancements, particularly in biocompatible materials, propel market growth. Reimbursement policies and a focus on reducing hospital stays also contribute to increased sealant and adhesive usage.

Key players in the market

Some of the key players in Surgical Sealants and Adhesives Market include 3M, Johnson & Johnson, Baxter International, CryoLife, Integra LifeSciences Corporation, Medtronic, Sealantis Ltd., Molnlycke Health Care, Globus Medical, Smith & Nephew, Tissuemed, Vermillion Inc., Asahi Kasei Corporation, TCL Surgical, Stryker Corporation, and Braun Melsungen AG.

Key Developments:

In February 2025, Johnson & Johnson MedTech, an emerging leader in neurovascular care, announced today the launch of the CEREGSLIDE™ 92 Catheter System, a next-generation .092" catheter with the INNERGLIDE™ 9 delivery aid, indicated for use in facilitating the insertion and guidance of interventional devices in the neurovascular system.

In December 2024, 3M and US Conec Ltd. announced a strategic licensing agreement for 3M™ Expanded Beam Optical Interconnect technology, a solution to meet the performance and scalability needs of next-generation data centers and advanced network architectures. The collaboration combines advanced optical technology from 3M with US Conec's expertise in high-density connectivity systems, expanded beam optics, and precision manufacturing.

Product Types Covered:

Surgical Sealants

Surgical Adhesives

Other Product Types

Forms Covered:

Liquid

Gel

Spray

Indications Covered:

Tissue Sealing

Tissue Engineering

Hemostasis

Applications Covered:

Central Nervous System

Cardiovascular

General surgery

Orthopedic

Ophthalmology

Urology

Pulmonary

Cosmetic

Other Applications

End Users Covered:

Ambulatory Surgery Centers (ASCs)

Clinics

Hospitals

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 2024, 2025, 2026, 2028, and 2032
- 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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