

# **Fibrin Sealant Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented by Product (Liquid Form, Patch), By End User (Ambulatory Surgical Centers, Hospitals, Specialty Clinics), By Region and competition**

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## **Abstracts**

Global Fibrin Sealant Market has valued at USD 1.23 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 6.88% through 2028.

In the dynamic world of medical advancements, the fibrin sealant market has emerged as a pivotal segment within the broader context of surgical procedures and wound management. Fibrin sealants, often referred to as fibrin glues, are a type of hemostatic agent, playing a critical role in promoting clotting and sealing wounds during and after surgeries.

The increasing number of surgeries globally, due to an aging population and a rise in chronic diseases, is driving the demand for fibrin sealants. These sealants are integral to controlling bleeding and ensuring effective wound closure. The trend toward minimally invasive surgeries, which necessitate precision and rapid wound healing, underscores the importance of fibrin sealants. Their ease of application and effectiveness make them a preferred choice among surgeons. Accidents, injuries, and trauma cases often require immediate wound management to prevent excessive blood loss. Fibrin sealants have proven to be crucial in these emergency settings.

High-quality fibrin sealants can be expensive, which may deter their adoption in regions with constrained healthcare budgets or in certain medical institutions. As some fibrin sealants are derived from human plasma, there's a potential (albeit low) risk of disease transmission, which can be a concern for healthcare providers.

Research and development in the sector are leaning towards the creation of synthetic fibrin sealants to mitigate any risks associated with natural sealants. The ongoing trend of bioengineering is expected to introduce advanced fibrin sealants that offer improved wound sealing capabilities and faster recovery. Beyond surgeries, fibrin sealants are projected to find applications in areas like sports medicine, where rapid wound healing is crucial.

The global fibrin sealant market is at the intersection of medical technology innovation and critical patient care. These sealants, with their unique capabilities of promoting rapid clotting and wound sealing, are indispensable in the contemporary surgical landscape.

As the market continues to evolve, driven by research, technological advancements, and changing surgical trends, stakeholders in the fibrin sealant sector, from manufacturers to healthcare providers, must remain adaptive and forward-looking. With a focus on enhancing product efficacy, ensuring patient safety, and expanding the application scope, the fibrin sealant market is poised for sustained growth, playing a vital role in global healthcare and surgical outcomes.

## Key Market Drivers

### Emerging Applications of Fibrin Sealant in Microsurgery and Implant Site Flap Closure is Major Factor for Fibrin Sealant Market Growth

The global fibrin sealant market is experiencing substantial growth, primarily driven by the emerging applications of fibrin sealant in microsurgery and implant site flap closure. Fibrin sealant, also known as tissue glue or surgical glue, is a biocompatible adhesive derived from human plasma proteins. It has been widely used in various surgical procedures for hemostasis and tissue sealing.

Microsurgery is a highly specialized field that involves intricate procedures on very small structures, often using high-powered microscopes. Fibrin sealant has found emerging applications in microsurgery due to its ability to provide precise and controlled tissue adhesion.

In microsurgical applications, the use of fibrin sealant offers several advantages, including reduced operative time, minimal tissue trauma, and improved postoperative recovery. It allows surgeons to achieve hemostasis and close tissues with high

precision.

Fibrin sealant is increasingly utilized in implant dentistry for site flap closure during dental implant procedures. It plays a crucial role in securing flaps over implant sites, ensuring proper healing and osseointegration.

The success of microsurgical and implant procedures heavily relies on the choice of adhesive. Surgeons demand reliable, biocompatible adhesives that can securely close tissues and promote effective healing without causing adverse reactions.

Fibrin sealant is known for its versatility. It can be used in various surgical specialties, including neurosurgery, ophthalmology, plastic surgery, and more, making it a valuable tool in the medical field.

In microsurgery and implant site flap closure, precision and safety are paramount. Fibrin sealant provides the controlled and localized tissue adhesion required for successful outcomes while minimizing the risk of complications.

Ongoing research and development efforts in the field of fibrin sealant have led to advanced formulations that offer improved adhesion strength, hemostatic properties, and biocompatibility. These advancements contribute to its growing adoption in microsurgery and implant dentistry.

The increasing demand for precise and effective tissue adhesives in microsurgery and implant procedures is driving the need for specialized fibrin sealant products. Surgeons and healthcare professionals seek advanced solutions to enhance surgical outcomes.

The global fibrin sealant market is experiencing robust growth, primarily driven by the emerging applications of fibrin sealant in microsurgery and implant site flap closure. Fibrin sealant has become an essential tool in achieving secure tissue adhesion and promoting healing in delicate surgical procedures. As the awareness of its benefits in microsurgery and implant dentistry continues to grow, the market for fibrin sealant is expected to thrive. Manufacturers and suppliers in this market must remain at the forefront of technology and innovation to meet the evolving demands of surgeons and healthcare professionals, ensuring continued growth and improved surgical outcomes worldwide.

**Rising Demand for Dental Surgeries Drives the Demand for Fibrin Sealant Market**

The global fibrin sealant market is experiencing significant growth, primarily driven by the rising demand for dental surgeries. Dental conditions such as periodontal disease, tooth decay, and oral infections continue to be common health issues worldwide. These conditions often necessitate various dental surgical procedures for diagnosis and treatment.

The demand for dental surgeries is on the rise due to factors such as an aging population, increased awareness of oral health, and advances in dental technology. These surgeries encompass a wide range of procedures, including tooth extractions, dental implant placements, gum surgeries, and root canal treatments.

Fibrin sealant, also known as tissue glue, plays a pivotal role in dental surgery. It is used to control bleeding, facilitate tissue closure, and promote efficient wound healing.

In dental surgeries, the use of fibrin sealant offers several advantages. It ensures hemostasis (control of bleeding), reduces the risk of infection, and accelerates the healing process. Fibrin sealant also provides a reliable tissue seal, which is crucial in preventing complications.

The success of dental surgical procedures heavily relies on the precision and effectiveness of tissue closure. Dental practitioners seek reliable and biocompatible adhesives that can securely close tissues, minimizing postoperative complications.

Fibrin sealant is a versatile adhesive used in various dental specialties, including oral and maxillofacial surgery, periodontics, endodontics, and implant dentistry. Its applicability across different dental procedures makes it an essential tool in dental practice.

Ongoing research and development efforts have led to advanced formulations of fibrin sealants. These formulations offer improved adhesion strength, hemostatic properties, and biocompatibility. These advancements further enhance its utility in dental surgeries.

The growing demand for precise and efficient tissue adhesives in dental surgeries is driving the need for specialized fibrin sealant products. Dental professionals and surgeons are seeking advanced solutions to optimize surgical outcomes.

The global fibrin sealant market is experiencing robust growth, primarily propelled by the increasing demand for dental surgeries. Fibrin sealant has become an indispensable component of dental practice, ensuring the successful conduct of various surgical

procedures. As the need for dental surgeries continues to rise worldwide, the market for fibrin sealants is expected to thrive. Manufacturers and suppliers in this market must remain at the forefront of technology and innovation to meet the evolving demands of dental practitioners, ensuring continued growth and improved oral health outcomes for patients globally.

### Biomaterial Alternative for Periodontal Surgery that Accelerates Periodontal Wound Healing and Regeneration

The global fibrin sealant market is experiencing significant growth, driven by the increasing demand for biomaterial alternatives in periodontal surgery that accelerate periodontal wound healing and regeneration. Periodontal disease, a common dental ailment, can lead to severe gum and bone damage if left untreated. Periodontal surgical interventions are often necessary to restore oral health.

Periodontal surgeries are complex and require precise wound closure and tissue regeneration. Effective biomaterials are needed to enhance the outcomes of these surgeries.

Fibrin sealant, a biocompatible adhesive derived from human plasma proteins, is increasingly being utilized as a biomaterial alternative in periodontal surgery. It offers unique advantages in promoting tissue regeneration and accelerating wound healing.

Fibrin sealant serves as a scaffold that supports tissue growth and healing. It provides a stable framework for cell migration and proliferation while securing wound closure.

In periodontal surgery, the use of fibrin sealant offers several benefits. It aids in hemostasis, prevents infection, and accelerates tissue repair. Fibrin sealant also contributes to bone regeneration and minimizes postoperative complications.

Patients and dental professionals alike seek biomaterials that can enhance periodontal wound healing, reduce recovery time, and improve overall oral health.

Fibrin sealant is versatile and can be used in various periodontal procedures, including gingival grafts, bone grafts, and guided tissue regeneration. Its applicability across different periodontal surgeries makes it a valuable asset in periodontal practice.

Ongoing research and development efforts have led to advanced formulations of fibrin sealants. These formulations offer improved regenerative properties, adhesion strength,

and biocompatibility.

The growing demand for biomaterial alternatives in periodontal surgery that accelerate wound healing and tissue regeneration is driving the need for specialized fibrin sealant products. Dental professionals and periodontal surgeons are increasingly adopting fibrin sealants to enhance surgical outcomes.

The global fibrin sealant market is experiencing robust growth, primarily fueled by the adoption of fibrin sealants as biomaterial alternatives in periodontal surgery. Fibrin sealant has become an essential component of periodontal practice, aiding in the regeneration of gum and bone tissues and accelerating the healing process. As the demand for enhanced periodontal wound healing and tissue regeneration continues to rise, the market for fibrin sealants is expected to thrive. Manufacturers and suppliers in this market must remain at the forefront of technology and innovation to meet the evolving demands of dental professionals and patients, ensuring continued growth and improved oral health outcomes globally.

## Key Market Challenges

### High Cost of Fibrin Sealants

The high cost of fibrin sealants represents a substantial obstacle to the growth of the global Fibrin Sealant market. Fibrin sealants are biologically derived adhesives used in surgical procedures to facilitate hemostasis, tissue sealing, and wound closure. Their effectiveness and safety have made them invaluable in various surgical applications, including cardiovascular, orthopedic, and general surgery. However, the production and processing of fibrin sealants involves complex biotechnological processes and stringent quality control, resulting in elevated production costs.

The high cost of fibrin sealants can strain healthcare budgets, deter some healthcare facilities from adopting these products, and limit market growth potential. Additionally, affordability concerns can lead to a preference for alternative hemostatic and tissue sealing solutions, further hampering market expansion.

To address this challenge and stimulate growth in the Fibrin Sealant market, manufacturers must explore strategies to optimize production processes, improve cost-efficiency, and collaborate with healthcare providers to showcase the long-term benefits and cost-effectiveness of fibrin sealant use. By making these vital surgical aids more accessible, the market can continue to advance in the field of medical procedures and



surgical interventions.

### Risk of Transmission

The risk of disease transmission poses a significant obstacle to the growth of the global Fibrin Sealant market. Fibrin sealants are crucial in surgical procedures, offering effective hemostasis and tissue sealing. However, many fibrin sealant products are derived from human or animal plasma, which raises concerns about the potential transmission of infectious diseases.

In healthcare environments, ensuring patient safety is paramount, and the risk of disease transmission is a significant concern. Even with rigorous screening and processing procedures, there remains a small but inherent risk associated with plasma-derived fibrin sealants.

To address this challenge and foster market growth, manufacturers are increasingly focusing on developing safer, recombinant or synthetic fibrin sealant alternatives. These alternatives eliminate the risk of disease transmission and are gaining acceptance in surgical settings. Regulatory agencies are also continually updating safety standards to minimize these risks.

By actively promoting and adopting these safer fibrin sealant solutions, the market can mitigate concerns related to disease transmission and ensure that these vital surgical tools continue to drive advancements in healthcare and surgical procedures.

### Key Market Trends

#### Government Funding and Improvement in the Quality of Healthcare

Advancements in bonding technologies are a fundamental trend driving the growth of the global Fibrin Sealant market. As industries continue to evolve, there is a growing demand for Fibrin Sealant that offer improved bonding capabilities, versatility, and efficiency. These advancements are not only transforming traditional bonding processes but also expanding the applications of Fibrin Sealant across various sectors.

The development of innovative bonding technologies includes the formulation of adhesive products with enhanced chemical compositions, allowing them to bond a wider range of plastic substrates effectively. Additionally, improvements in curing mechanisms, such as UV curing and cyanoacrylate technology, have accelerated

bonding speeds and enhanced the overall performance of Fibrin Sealant.

These advancements are particularly crucial in industries like automotive, electronics, and medical devices, where plastic components play a significant role. As manufacturers seek reliable, high-performance bonding solutions to improve product quality and assembly efficiency, the global Fibrin Sealant market is poised for substantial growth. Companies that invest in cutting-edge bonding technologies and adapt to evolving industry demands are well-positioned to capitalize on this transformative trend.

### Advancements in Technology to Meet Increasing Surgical Procedures

Advancements in technology to meet the surging demand for surgical procedures represent a crucial trend propelling the growth of the Global Fibrin Sealant Market. The modern healthcare landscape is witnessing an unprecedented rise in surgical interventions, driven by factors such as an aging population, increased prevalence of chronic diseases, and expanding access to healthcare services.

Fibrin sealants, with their remarkable ability to promote hemostasis and tissue sealing, have become indispensable tools in surgical settings. To keep pace with the growing number and complexity of surgeries, technological advancements in fibrin sealant formulations and delivery methods are paramount. These innovations focus on improving the efficacy, precision, and convenience of fibrin sealant application, ultimately enhancing patient outcomes.

Novel technologies include the development of ready-to-use fibrin sealant sprays, advanced applicators, and formulations that enable quicker and more efficient hemostasis and tissue bonding. As surgical procedures continue to rise, the Global Fibrin Sealant Market is set to expand further, with technology-driven solutions addressing the evolving needs of surgeons and healthcare providers.

### Segmental Insights

#### Product Insights

Based on the Product, the Liquid Form segment emerged as the dominant player in the global market for Fibrin Sealant. The liquid segment is expected to maintain its dominance in the fibrin glue market, primarily due to its superior procedural outcomes compared to other patch forms. Liquid fibrin glue offers several advantages, including



rapid action and enhanced stability, which contribute to its growing popularity.

Notably, liquid solutions can achieve hemostasis within a remarkably short period, typically ranging from 3 to 4 minutes after application. These qualities make liquid fibrin glue a preferred choice among medical practitioners, further bolstering its prominence within the market.

### End User Insights

The hospital segments are projected to experience rapid growth during the forecast period. driven by the increasing number of CABG (coronary artery bypass grafting) and other cardiovascular surgeries conducted in hospital settings. Notably, research by the Agency for Healthcare Research and Quality reveals a substantial 20.0% increase in percutaneous transluminal coronary angioplasty procedures within U.S. hospitals between 2001 and 2011. This surge in surgical procedures performed within hospital premises contributes to the segment's growth.

Simultaneously, there is a gradual shift in patient preferences from inpatient visits to outpatient visits, creating substantial growth opportunities for the specialty clinics end-user segment from 2019 to 2026. This shift underscores the increasing importance of specialized healthcare facilities.

Conversely, the 'others' segment, encompassing ambulatory surgery centers and various care facilities, is expected to hold a comparatively lower market share. This is primarily due to the lower demand for advanced healthcare facilities in both developing and developed countries, resulting in reduced market presence for this category.

### Regional Insights

The Asia-Pacific region is poised to experience robust growth during the forecast period. The Asia-Pacific region is expected to experience robust growth, attributed to the entry of new market players and the implementation of strategic marketing policies. Additionally, the rapid development of healthcare infrastructure in countries like China and India, combined with increased healthcare expenditure in Japan and Australia, presents significant growth opportunities in this region by 2026.

In North America, the market is poised for substantial growth, driven by a rapid increase in surgical procedures and a strong emphasis on the adoption of minimally invasive surgeries. Furthermore, the United States, in particular, is witnessing a surge in the

adoption of technology for minimally invasive surgical procedures, further fueling market expansion in the region.

In Latin America and the Middle East & Africa, the market is set to grow due to an increasing number of healthcare facilities and a rising volume of cardiac interventions. These factors are anticipated to drive the expansion of the fibrin glue market in these regions, showcasing their growing importance in the global healthcare landscape.

### Key Market Players

Johnson and Johnson

Baxter International Inc.

Nordson Corporation (Nordson Medical)

Corza Health Inc

Becton Dickinson and Company

CSL Behring LLC

Grifols SA

Shanghai RAAS Blood Products Co., Ltd.

Vivostat A/S

Hemarus Therapeutics Ltd

### Report Scope:

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

Fibrin Sealant Market, By Type:

Liquid Form

Patch

Fibrin Sealant Market, By End User:

Ambulatory Surgical Centers

Hospitals

Specialty Clinics

Fibrin Sealant Market, By Region:

Asia-Pacific

China

India

Japan

Australia

South Korea

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

Turkiye

Egypt

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Fibrin Sealant Market.

## Available Customizations:

Global Fibrin Sealant 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).

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- 18.9.5. Recent Developments
- 18.9.6. SWOT Analysis

#### 18.10. Hemarus Therapeutics Ltd.

- 18.10.1. Business Overview
- 18.10.2. Company Snapshot
- 18.10.3. Applications & Services
- 18.10.4. Financials (In case of listed companies)
- 18.10.5. Recent Developments
- 18.10.6. SWOT Analysis

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