

Multifilament Absorbable Sutures Market Forecasts to 2032 – Global Analysis By Type (Natural Multifilament Sutures, Synthetic Multifilament Sutures, and Other Types), Material, Coating Type, Distribution Channel, Application, End User and By Geography

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Abstracts

According to Statistics MRC, the Global Multifilament Absorbable Sutures Market is accounted for \$3.34 billion in 2025 and is expected to reach \$6.51 billion by 2032 growing at a CAGR of 10.0% during the forecast period. Multifilament absorbable sutures consist of several twisted fibers, offering increased durability, flexibility, and secure knotting. Over time, they are naturally broken down and absorbed by the body, removing the need for extraction. Typically utilized for soft tissue stitching and ligation, they provide temporary support. The braided design enhances handling, minimizes tissue irritation, and ensures more effective wound closure than single-strand sutures.

According to data published by the International Society of Aesthetic Plastic Surgery in June 2024, around 0.9 million rhinoplasty procedures were performed worldwide in 2022. This number was increased to 1.1 million in 2023.

Market Dynamics:

Driver:

Increasing number of surgical procedures

As chronic diseases like cancer and cardiovascular conditions rise, hospitals are performing more complex and minimally invasive surgeries. Technological advancements such as robotic-assisted systems and precision suturing tools are

improving procedural outcomes and reducing recovery times. Aging populations and better diagnostic capabilities are expanding surgical caseloads across both developed and emerging regions. Surgeons are increasingly opting for absorbable sutures to minimize post-operative complications and eliminate the need for removal. This surge in surgical activity is directly propelling the growth of advanced wound closure solutions.

Restraint:

Competition from alternative wound closure methods

Alternative wound closure solutions such as surgical staples, medical adhesives, and closure tapes are increasingly being adopted across various clinical settings. These methods often offer faster application and reduced tissue trauma, challenging the dominance of traditional sutures. Innovations in bioadhesives and laser-based closure systems are reshaping surgical preferences. Additionally, the integration of smart materials and antimicrobial coatings in non-suture closures is attracting clinical interest. Hospitals are exploring cost-effective and time-saving options, especially in high-throughput environments. As these alternatives evolve, they pose a competitive threat to multifilament absorbable sutures in certain surgical specialties.

Opportunity:

Rising demand in specific surgical specialties

Specialized surgical fields such as orthopedics, cardiovascular, and gynecology are witnessing increased adoption of multifilament absorbable sutures. These sutures offer superior knot security and tensile strength, making them ideal for complex tissue approximation. Emerging trends include the use of sutures embedded with drug-eluting properties for enhanced healing. Surgeons are also leveraging sutures compatible with robotic and laparoscopic platforms for precision closure. As personalized medicine advances, specialty procedures are becoming more tailored, requiring high-performance suturing materials. This niche demand is opening up lucrative opportunities for innovation and market expansion.

Threat:

Vulnerability to supply chain disruptions

The multifilament absorbable sutures remains highly sensitive to global supply chain fluctuations. Dependence on specialized raw materials and sterile packaging can lead to production delays during geopolitical or economic instability. Shortages in medical-grade polymers and transportation bottlenecks have impacted delivery timelines. Manufacturers are adopting predictive analytics and digital logistics tools to mitigate these risks. However, labor shortages and regional lockdowns continue to strain operational continuity. Without resilient supply chain frameworks, companies risk losing market share due to inconsistent availability of critical surgical products.

Covid-19 Impact:

The COVID-19 pandemic disrupted surgical workflows, delaying elective procedures and reducing demand for suturing products. Lockdowns and manufacturing halts led to shortages in absorbable sutures and related surgical supplies. However, the crisis accelerated digital transformation, with hospitals adopting tele-surgical platforms and remote diagnostics. Regulatory bodies introduced emergency approvals to fast-track essential medical devices, including sutures. Post-pandemic recovery is emphasizing automation, decentralized production, and inventory resilience. These shifts are reshaping the future landscape of surgical equipment procurement and utilization.

The polyglactin segment is expected to be the largest during the forecast period

The polyglactin segment is expected to account for the largest market share during the forecast period. Its balanced absorption profile and high tensile strength make it suitable for a wide range of surgical applications. Surgeons prefer polyglactin sutures for internal soft tissue approximation due to their predictable degradation and minimal tissue reaction. Innovations in coating technologies and antimicrobial enhancements are further boosting its clinical utility. The segment is also benefiting from increased usage in robotic and laparoscopic procedures. As surgical volumes rise, polyglactin continues to be the material of choice for reliable wound closure.

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

Over the forecast period, the specialty clinics segment is predicted to witness the highest growth rate. These facilities are increasingly performing advanced procedures in outpatient settings, driving demand for high-performance sutures. Integration of compact surgical kits and cloud-based inventory systems is enhancing operational efficiency. Clinics are adopting minimally invasive techniques supported by ergonomic

suturing tools and biodegradable materials. Favorable reimbursement policies and shorter recovery times are attracting more patients to specialty centers. This shift toward decentralized care is fueling rapid growth in suture consumption within these clinics.

Region with largest share:

During the forecast period, the Asia Pacific region is expected to hold the largest market share. Countries like China, India, and Japan are investing heavily in healthcare infrastructure and surgical innovation. Government initiatives promoting local manufacturing and import substitution are boosting regional production capacity. The adoption of AI-assisted diagnostics and robotic surgery is accelerating across major urban centers. Strategic collaborations between global and domestic players are facilitating technology transfer and market penetration.

Region with highest CAGR:

Over the forecast period, the North America region is anticipated to exhibit the highest CAGR, driven by technological leadership and robust R&D investment. The U.S. and Canada are pioneering smart operating rooms and AI-integrated surgical platforms. Regulatory agencies are streamlining approval pathways for next-gen suturing materials, encouraging faster market entry. Hospitals are adopting IoT-enabled tools to optimize surgical workflows and asset utilization. High adoption of minimally invasive procedures and strong reimbursement frameworks are reinforcing market momentum. As precision surgery becomes mainstream, North America continues to lead global innovation in wound closure technologies.

Key players in the market

Some of the key players in Multifilament Absorbable Sutures Market include Johnson & Johnson, Sutures India Pvt Ltd, Medtronic, Surgical Specialties Corporation, B. Braun Melsungen AG, InternacionalFarmac?utica, DemeTECH Corporation, Unilene, Smith & Nephew, Huaiyin Medical Instruments Co., Ltd., Teleflex Incorporated, Assut Medical S?rl, Peters Surgical, Grena Ltd., and Lotus Surgicals.

Key Developments:

In June 2021, Ethicon, a subsidiary of Johnson & Johnson Services, Inc., announced that the National Institute for Health and Care Excellence issued new medical

technologies guidance (MTG59) recommending the use of Plus antibacterial sutures in surgeries within the healthcare system of the U.K.

Types Covered:

Natural Multifilament Sutures

Synthetic Multifilament Sutures

Other Types

Materials Covered:

Polyglactin

Polydioxanone (PDO)

Polyglycolic Acid (PGA)

Polylactic Acid (PLA)

Other Materials

Coating Types Covered:

Coated Sutures

Uncoated Sutures

Distribution Channels Covered:

Direct Sales

Distributors

Applications Covered:

- General Surgery
- Neurological Surgery
- Orthopedic Surgery
- Ophthalmic Surgery
- Gynecology
- Cosmetic & Plastic Surgery
- Cardiology
- Other Applications

End Users Covered:

- Hospitals & Ambulatory Surgical Centers (ASCs)
- Academic & Research Institutes
- Specialty Clinics
- 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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