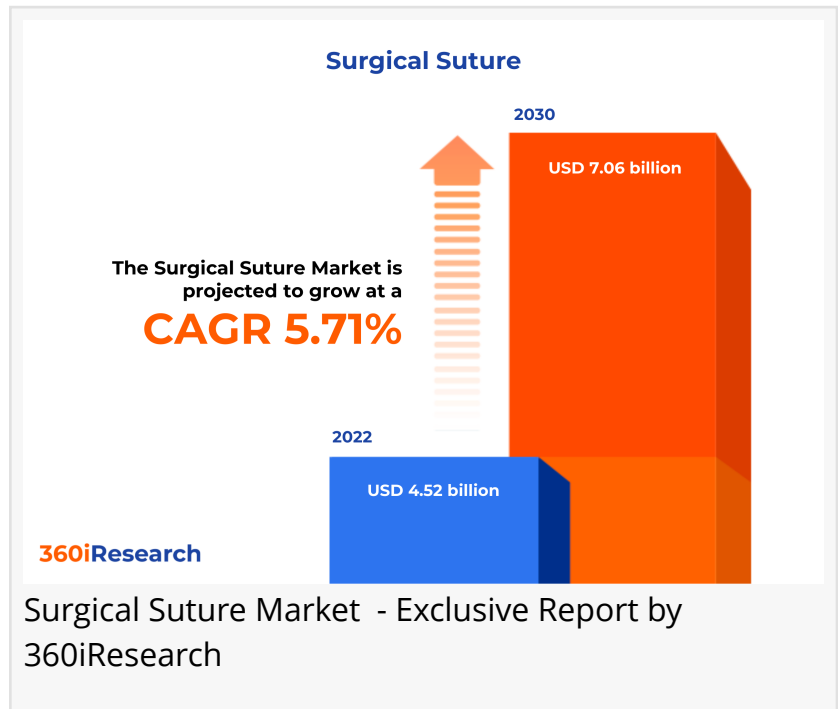


# Surgical Suture Market worth \$7.06 billion by 2030, growing at a CAGR of 5.71% - Exclusive Report by 360iResearch

*The Global Surgical Suture Market to grow from USD 4.52 billion in 2022 to USD 7.06 billion by 2030, at a CAGR of 5.71%.*

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-- The "[Surgical Suture Market](#) by Type (Monofilament Sutures, Multifilament Sutures), Material (Absorbable, Non-Absorbable), Application, End-User - Global Forecast 2023-2030" report has been added to 360iResearch.com's offering.

The Global Surgical Suture Market to grow from USD 4.52 billion in 2022 to USD 7.06 billion by 2030, at a CAGR of 5.71%.



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Surgical sutures are medical devices that hold together the edges of skin near the wound or incision during the healing process. They are commonly employed in various surgical procedures, including internal and external wounds. Surgical sutures are made of multiple materials, including natural substances (silk or catgut), synthetic materials (nylon or polypropylene), or absorbable materials (polyglycolic acid or polylactic acid). Sutures can be placed in different patterns, such as simple interrupted, continuous, or mattress sutures, to achieve optimal wound closure and promote proper healing. Moreover, older adults often require more surgical interventions for various medical conditions, including joint replacements, cardiovascular surgeries, and cancer treatments, increasing the need for surgical sutures. However, various alternative wound care management products and frequent breakage problems in surgical sutures impede their use. Additionally, material science and technology

advances have led to the development of new suture materials with improved properties.

Type: High adoption of monofilament sutures provides a lower risk of infection

Monofilament sutures are single-strand sutures known for their smooth surface, which allows them to pass through tissues with minimal resistance. They are often used in cases where minimizing the risk of infection is crucial, such as in clean surgical wounds. The preference for monofilament sutures arises from their reduced tissue drag, which lessens the trauma during suturing. Multifilament sutures, known as braided sutures, are composed of several small filaments twisted or braided together. They provide better knot security and tensile strength compared to monofilament sutures. Surgeons prefer multifilament sutures in situations requiring secure knotting and strength, such as in repairing tendons or areas with significant mechanical stress. One must consider factors such as the potential for tissue reactivity, infection rates, and knot security while comparing monofilament and multifilament sutures.

Monofilament sutures produce less tissue reaction and lower infection chances than multifilaments. However, multifilaments offer superior knot security and ease of use, which can be pivotal in surgeries that involve delicate or intricate tissue repair.

End-User: Potential need for surgical sutures in the hospital sectors cater to multiple surgical specialties

Ambulatory surgical centers are healthcare facilities that offer elective surgeries and procedures that do not require an overnight hospital stay. The preference for surgical sutures in this setting is typically for those that are easy to use, faster to implement, and promote rapid healing, minimizing patient return visits. ASCs often opt for antimicrobial sutures to prevent site infections due to the outpatient nature of their services. Clinics and dispensaries frequently handle minor surgical procedures that may require suturing. The sutures preferred in these settings are cost-effective, versatile, and easy to store and handle. Hospitals are the most critical end-user segment for surgical sutures, given the variety and volume of surgeries performed. The need-based preference is for a broad portfolio of sutures that cater to multiple surgical specialties, from cardiovascular to ophthalmic surgeries.

Application: Proliferating utilization of surgical sutures in general surgeries

Cardiovascular surgeries, such as heart valve repair and vessel suturing, require sutures that provide exceptional strength, handling, and cardiovascular biocompatibility. In cosmetic and plastic surgery, there is a need for inconspicuous sutures for scarring. The preference is often for fine, absorbable sutures that provide temporary wound support until natural healing provides strength. General surgeries cover a broad range of procedures, from hernia repairs to appendectomies, and the sutures used must be versatile. A mix of absorbable sutures for internal applications and non-absorbable ones for skin closure or long-term support in procedures such as hernia repair is often necessary. Gynecological surgeries often necessitate sutures designed for delicate tissues and tailored to specific applications, such as cesarean sections, hysterectomies, and pelvic organ prolapse repairs. Absorbable monofilament sutures, such as those made from polydioxanone, are frequently chosen for their minimal tissue drag and infection risk reduction. Ophthalmic surgeries, including cataract and corneal

transplantation, require the highest precision and smallest sutures available due to the delicate nature of the eye tissues. Sutures repair soft tissue, such as ligaments and tendons, for orthopedic surgeries and are mostly used for high-tensile strength sutures.

**Material:** Significant penetration of natural absorbable sutures

Absorbable sutures of natural origin include catgut, which is made from the purified intestines of sheep or other livestock. They can be plain or treated with chromium salts to slow down absorption. Another naturally absorbable suture material is reconstituted collagen, designed to simulate the natural collagen in the human body. These materials are designed to be metabolically digested by the body over time; hence, they do not require removal after wound healing. Synthetic absorbable sutures have enhanced absorption rates and reduced tissue reaction compared to natural sutures. This includes monocril (poliglecaprone 25), a monofilament that offers excellent handling and reduced trauma; polydioxanone (PDS), known for its extended support time for wound healing; and vicryl (polyglactin 910), which is a multifilament suture for easier knot tying and smooth passage through tissue. These materials are designed to degrade safely in the body through hydrolysis. Non-absorbable sutures originating from natural elements include materials such as surgical cotton, surgical silk, and surgical steel. Surgical cotton and silk provide high tensile strength and are good for external wound closure where prolonged support is unnecessary. Surgical steel is a metal suture that is strong and used in situations requiring permanent support or in potentially infected wounds. Synthetic, non-absorbable sutures are designed for permanent wound closure where long-term strength is needed. Ethilon (nylon) is a synthetic, non-absorbable material known for its flexibility and enhanced tensile strength. Ethilon sutures are often used in the skin or superficial tissues. Polypropylene is another synthetic non-absorbable option, which is inert and has a lower incidence of infection, making it suitable for internal uses where permanent support is required, such as abdominal closures.

**Regional Insights:**

The surgical sutures market is growing in the Americas owing to the well-established healthcare sector, increased surgical procedures, and a high adoption rate of advanced medical technologies. The market is witnessing a growth in aesthetic and cosmetic surgeries, fueling the need for surgical sutures. Advancements in the healthcare sector, coupled with an increasing aging population and strong preference for high-quality and reliable products, are resulting in an increased need for surgical sutures in the EMEA region. The Middle East and Africa's surgical sutures market is growing steadily, driven by the increasing number of hospitals and clinics and government initiatives to modernize healthcare infrastructure. Continuous improvements in healthcare infrastructure, a large population base, and a growing emphasis on developing novel surgical suture materials and techniques are influencing the growth of the surgical sutures market in the APAC region.

**FPNV Positioning Matrix:**

The FPNV Positioning Matrix is essential for assessing the Surgical Suture Market. It provides a

comprehensive evaluation of vendors by examining key metrics within Business Strategy and Product Satisfaction, allowing users to make informed decisions based on their specific needs. This advanced analysis then organizes these vendors into four distinct quadrants, which represent varying levels of success: Forefront (F), Pathfinder (P), Niche (N), or Vital(V).

#### Market Share Analysis:

The Market Share Analysis offers an insightful look at the current state of vendors in the Surgical Suture Market. By comparing vendor contributions to overall revenue, customer base, and other key metrics, we can give companies a greater understanding of their performance and what they are up against when competing for market share. The analysis also sheds light on just how competitive any given sector is about accumulation, fragmentation dominance, and amalgamation traits over the base year period studied.

#### Key Company Profiles:

The report delves into recent significant developments in the Surgical Suture Market, highlighting leading vendors and their innovative profiles. These include Able Medical Devices Inc., AD Surgical, Advanced Medical Solutions Group plc, AIP Medical SA, Atramat by Internacional Farmacéutica S.A . de C.V., B. Braun SE, Centenial Surgical Suture Ltd., CONMED Corporation, Corza Medical GmbH, DemeTECH Corporation, Demophorius Healthcare Ltd., Dolphin Sutures, Genesis Medtech, GMD Group, Healthium Medtech Ltd., Johnson & Johnson Services, Inc., Lotus Surgicals Pvt Ltd, Lux Sutures SA, Lydus Medical, McKesson Medical-Surgical Inc., Medtronic PLC, Mellon Medical B.V., Orion Sutures India Pvt Ltd, Peters Surgical, Riverpoint Medical, Shandong Haidike Medical Products Co.,Ltd., Smith & Nephew PLC, Stryker Corporation, Sutumed Corp., SUTUREGARD Medical, Inc., Teleflex Incorporated, Unisur Lifecare Pvt. Ltd., Vitrex Medical A/S, and Zimmer Biomet Holdings, Inc..

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#### Market Segmentation & Coverage:

This research report categorizes the Surgical Suture Market in order to forecast the revenues and analyze trends in each of following sub-markets:

Based on Type, market is studied across Monofilament Sutures and Multifilament Sutures. The Monofilament Sutures is projected to witness significant market share during forecast period.

Based on Material, market is studied across Absorbable and Non-Absorbable. The Absorbable is further studied across Natural and Synthetic. The Natural is further studied across Catgut and Reconstituted Collagen. The Synthetic is further studied across Monocryl, Polydioxanone, and Vicryl. The Non-Absorbable is further studied across Natural and Synthetic. The Natural is further

studied across Surgical Cotton, Surgical Silk, and Surgical Steel. The Synthetic is further studied across Ethilon and Polypropylene. The Absorbable is projected to witness significant market share during forecast period.

Based on Application, market is studied across Cardiovascular Surgery, Cosmetic & Plastic Surgery, General Surgery, Gynecological Surgery, Ophthalmic Surgery, and Orthopedic Surgery. The Cosmetic & Plastic Surgery is projected to witness significant market share during forecast period.

Based on End-User, market is studied across Ambulatory Surgical Centers, Clinics & Dispensaries, and Hospitals. The Hospitals is projected to witness significant market share during forecast period.

Based on Region, market is studied across Americas, Asia-Pacific, and Europe, Middle East & Africa. The Americas is further studied across Argentina, Brazil, Canada, Mexico, and United States. The United States is further studied across California, Florida, Illinois, New York, Ohio, Pennsylvania, and Texas. The Asia-Pacific is further studied across Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam. The Europe, Middle East & Africa is further studied across Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom. The Europe, Middle East & Africa commanded largest market share of 36.67% in 2022, followed by Americas.

#### Key Topics Covered:

1. Preface
2. Research Methodology
3. Executive Summary
4. Market Overview
5. Market Insights
6. Surgical Suture Market, by Type
7. Surgical Suture Market, by Material
8. Surgical Suture Market, by Application
9. Surgical Suture Market, by End-User
10. Americas Surgical Suture Market
11. Asia-Pacific Surgical Suture Market
12. Europe, Middle East & Africa Surgical Suture Market
13. Competitive Landscape
14. Competitive Portfolio
15. Appendix

The report provides insights on the following pointers:

1. Market Penetration: Provides comprehensive information on the market offered by the key players
2. Market Development: Provides in-depth information about lucrative emerging markets and analyzes penetration across mature segments of the markets
3. Market Diversification: Provides detailed information about new product launches, untapped geographies, recent developments, and investments
4. Competitive Assessment & Intelligence: Provides an exhaustive assessment of market shares, strategies, products, certification, regulatory approvals, patent landscape, and manufacturing capabilities of the leading players
5. Product Development & Innovation: Provides intelligent insights on future technologies, R&D activities, and breakthrough product developments

The report answers questions such as:

1. What is the market size and forecast of the Surgical Suture Market?
2. Which are the products/segments/applications/areas to invest in over the forecast period in the Surgical Suture Market?
3. What is the competitive strategic window for opportunities in the Surgical Suture Market?
4. What are the technology trends and regulatory frameworks in the Surgical Suture Market?
5. What is the market share of the leading vendors in the Surgical Suture Market?
6. What modes and strategic moves are considered suitable for entering the Surgical Suture Market?

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