

# Topical Hemostat Market Size, Share & Trends Analysis Report By Type (Thrombin, Collagen, Gelatin), By Application (General Surgery, Cardiovascular Surgery), By End-use, By Region, And Segment Forecasts, 2025 - 2030

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## Abstracts

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### Topical Hemostat Market Size & Trends

The global topical hemostat market size was valued at USD 5.9 billion in 2024 and is projected to grow at a CAGR of 9.4% from 2025 to 2030. The industry is growing due to rising surgical procedures, increasing trauma cases, and advancements in hemostatic technologies. These products are widely used to control bleeding in surgeries, including cardiovascular, orthopedic, and neurosurgical procedures. The demand is fueled by the need for faster wound healing, reduced surgical complications, and improved patient outcomes. Growing healthcare infrastructure, particularly in emerging markets, and the rise in minimally invasive procedures further drive market growth.

A recent case underscored the limitations of conventional hemostatic materials like gauze, where its unintended presence in a patient post-surgery caused pain, inflammation, and infection. Traditional materials such as gauze and medical bands primarily control surface bleeding but lack adherence to bleeding sites and are prone to contamination. Alternatives like fibrin glue and collagen sponges, though biodegradable, are expensive due to their reliance on human or animal-derived proteins.

Researchers have addressed these limitations and developed an innovative bilayer

nanofiber membrane hemostat using natural proteins from mussels and silkworm cocoons. This novel hemostat offers strong tissue adhesion, effective bleeding control, and protection against infection. Led by Professor Hyung Joon Cha and a collaborative team from POSTECH, Ewha Womans University, and Seoul St. Mary's Hospital, the research was published in the journal *Small* in February 2024. The hemostatic agent integrates mussel adhesive proteins, which activate platelets for rapid hemostasis, and silk fibroin from silkworms, modified with methanol vapor to create a hydrophobic nanofiber outer layer. This dual-layer design ensures biocompatibility, biodegradability, and robust infection prevention.

Animal experiments demonstrated the agent's ability to accelerate tissue adhesion and hemostasis in bleeding wounds. Its inner layer enhances adhesion while the outer layer protects against waterborne contaminants and bacteria. These advancements address critical shortcomings in existing hemostatic materials, offering a safer, multifunctional solution for surgical applications. The research team emphasized the agent's potential for real-world surgical settings and its transformative impact on patient care.

The industry benefits from growing awareness of such innovations, as well as funding and research support. This study, supported by Korea's Marine Biomaterials Research Center Program and the National Research Foundation, highlights the importance of government initiatives in driving market growth. As demand for advanced, cost-effective, and biocompatible hemostatic agents rises, the market is poised for substantial expansion, propelled by technological breakthroughs and the continuous pursuit of safer surgical outcomes.

### Global Topical Hemostat Market Report Segmentation

This report forecasts revenue growth at the global, regional, and country levels and provides an analysis of the latest industry trends and opportunities in each of the sub-segments from 2018 to 2030. For this study, Grand View Research has segmented the global topical hemostat market report on the basis of type, application, end-use, and region:

Type Outlook (Revenue, USD Million, 2018 - 2030)

Fibrin

Thrombin

Cellulose

Collagen

Gelatin

Adhesives

Others

Application Outlook (Revenue, USD Million, 2018 - 2030)

General Surgery

Neurosurgery

Vascular Surgery

Cardiovascular Surgery

Others

End-use Outlook (Revenue, USD Million, 2018 - 2030)

Hospitals

Ambulatory Surgical Centers

Others

Region Outlook (Revenue, USD Million, 2018 - 2030)

North America

U.S.

Canada

Mexico

Europe

UK

Germany

France

Italy

Spain

Denmark

Sweden

Norway

Asia Pacific

Japan

China

India

Australia

South Korea

Thailand

Latin America

Brazil

Argentina

Middle East & Africa

South Africa

Saudi Arabia

UAE

Kuwait

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