

# Bone Cement Market Projected to Reach USD 1.2 Bn, Expand at a CAGR of 5.2% by 2035 | Analysis Report by TMR

*The Global Bone Cement Market Growth at a CAGR of 5.2%,  
Driven by Ongoing Advancements in Surgical Techniques  
2035*

WILMINGTON, DE, UNITED STATES, September 5, 2025 /EINPresswire.com/ -- The global [Bone](#)

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The Global Bone Cement Market Growth at a CAGR of 5.2%, Driven by Ongoing Advancements in Surgical Techniques 2035”

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[Cement Market](#) is a vital and growing segment of the orthopedic medical device industry. Bone cement, a synthetic adhesive material also known as Polymethyl Methacrylate (PMMA), is primarily used in surgical procedures to anchor orthopedic implants and fill bone voids. The market, valued at US\$ 657.8 million in 2024, is on a steady growth trajectory. It is projected to grow at a Compound Annual Growth Rate (CAGR) of 5.2% from 2025 to 2035, with its valuation expected to surpass US\$ 1.2 billion by the end of 2035. This expansion is driven by a

combination of demographic shifts, technological advancements, and a rising global demand for orthopedic surgical interventions.

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## Key Drivers of Market Growth

Several interconnected factors are propelling the growth of the bone cement market, each contributing to its robust outlook.

1. **Rising Prevalence of Orthopedic Conditions and an Aging Population:** The most significant driver is the world's aging population. As people live longer, the incidence of age-related orthopedic conditions like osteoporosis and osteoarthritis is increasing dramatically. Osteoporosis, a disease that weakens bones and makes them prone to fractures, affects over 200 million people globally, and this number is expected to rise. Similarly, the prevalence of osteoarthritis is a major concern. These conditions necessitate a higher number of joint

replacement surgeries, particularly total knee arthroplasty (TKA) and total hip arthroplasty (THA), where bone cement is a critical component for implant fixation.

2. Increasing Incidence of Sports-Related Injuries and Trauma: Beyond age-related factors, the market is also being fueled by an increase in sports injuries and road accidents. With greater participation in competitive and recreational sports, as well as rising urbanization and traffic, trauma cases and complex fractures are becoming more common. Bone cement is essential for the stabilization and fixation of fractures, ensuring quick recovery and mobility post-surgery.

3. Technological Advancements in Formulations: Innovation in bone cement formulations is a key growth factor. The development of antibiotic-loaded bone cements (ALBCs), for instance, has been a game-changer. These cements release antibiotics locally at the surgical site, significantly reducing the risk of post-operative infections and subsequent revision surgeries. This innovation has improved patient outcomes and expanded the application of bone cement. Additionally, the emergence of bioactive and osteoconductive cements, such as Calcium Phosphate Cement (CPC), which promote bone regeneration and integration, is creating new market opportunities and catering to specific clinical needs.

4. Growing Demand for Minimally Invasive Surgical Procedures: The shift towards minimally invasive surgery (MIS) is a major trend in orthopedics. These procedures offer benefits such as smaller incisions, reduced scarring, less pain, and faster recovery times. Bone cement is crucial for MIS techniques like vertebroplasty and kyphoplasty, which are used to treat painful vertebral compression fractures, often caused by osteoporosis. The rising adoption of these procedures directly contributes to the demand for specialized bone cements and their delivery systems.

### Market Segmentation and Regional Trends

The bone cement market is a diverse landscape, segmented by product type, application, and end-user, with distinct regional dynamics.

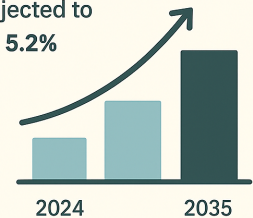
**By Product Type:** The market is dominated by Polymethyl Methacrylate (PMMA) cement, which held a majority of the market share. Its long-standing use, proven mechanical strength, and surgeon familiarity make it the gold standard. However, Calcium Phosphate Cement (CPC) is a rapidly growing segment due to its excellent biocompatibility and ability to facilitate bone

## BONE CEMENT MARKET OUTLOOK



The global bone cement industry was valued at **US\$ 657.8 Mn** in 2024

The industry is projected to grow at a **CAGR of 5.2%** from 2025 to 2035



crossing **US\$ 1.2 Bn** by the end of 2035

Bone Cement Market

regeneration. Other types, such as Glass Polyalkenoate Cement, also contribute to the market.

**By Application:** Arthroplasty (joint replacement surgeries) is the largest application segment, accounting for a majority of the market share, driven by the high volume of hip and knee replacements. Other key applications include vertebroplasty and kyphoplasty, which are gaining traction due to the increasing incidence of vertebral compression fractures. Trauma and fracture repair also represent a significant application area.

**By End-User:** The market is primarily segmented into Hospitals, which hold the largest share due to the high volume of complex surgeries and established infrastructure, and Ambulatory Surgical Centers (ASCs), which are a rapidly growing segment. The shift towards outpatient surgeries for routine procedures is fueling the growth of ASCs, which seek cost-effective and efficient solutions. Clinics and other specialty centers also contribute to the market.

**By Region:** North America continues to be the dominant market, driven by its advanced healthcare infrastructure, significant R&D investments, high prevalence of orthopedic diseases, and favorable reimbursement policies. The Asia Pacific region is emerging as the fastest-growing market, with a projected CAGR of over 7%. This growth is fueled by a large and aging population, expanding healthcare expenditure, increasing medical tourism, and a rising awareness of advanced orthopedic treatments in countries like China and India. Europe also remains a significant contributor, supported by its advanced healthcare sector and adherence to stringent regulatory standards.

## Challenges and Opportunities

While the market's outlook is strong, it is not without its challenges, which in turn create new opportunities for innovation.

**Challenges:** One of the primary challenges is the risk of complications associated with bone cement, such as thermal necrosis (tissue death due to the heat generated during cement polymerization) and allergic reactions to the material. High costs associated with advanced formulations and the need for extensive clinical data for regulatory approval can also create a barrier to market entry for new players. Furthermore, the rising popularity of cement-less implants, particularly among younger patients, could pose a long-term challenge to the market.

**Opportunities:** The market presents significant opportunities for innovation. The development of bone cements with improved mechanical properties, reduced heat generation, and enhanced biocompatibility is a major focus. The integration of smart technologies, such as AI-guided injection systems and real-time monitoring sensors, can enhance the precision of cement delivery and reduce complications. Furthermore, the growth of the market in emerging economies offers a vast, untapped potential for companies that can provide cost-effective and high-quality solutions. The focus on developing patient-specific formulations and incorporating regenerative medicine principles also offers a promising avenue for future growth.

## Competitive Landscape

The bone cement market is moderately competitive, with a mix of global leaders and specialized players. Key players include Stryker Corporation, Zimmer Biomet, DePuy Synthes (Johnson & Johnson), Heraeus Medical, and Smith & Nephew. These companies are focused on a multi-pronged strategy involving research and development, strategic acquisitions, and expanding their geographical presence. For instance, companies are investing in robotic mixing platforms and establishing local manufacturing facilities in high-growth regions like Asia. The competitive landscape is also shaped by strategic partnerships and co-marketing agreements aimed at expanding product portfolios and market reach. The future of the market will be defined by advancements that balance proven efficacy with enhanced patient safety, operational efficiency, and a focus on long-term outcomes.

Stryker

DePuy Synthes (Johnson & Johnson)

Cardinal Health

Heraeus Medical GmbH

Exactech, Inc.

Zimmer Biomet

Enovis Corporation

Smith+Nephew

Medtronic

Olympus Corporation

Tecres SpA

Slaney Healthcare

Evolutis

IZI Medical Products

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## Contact:

Transparency Market Research Inc.  
CORPORATE HEADQUARTER DOWNTOWN,

1000 N. West Street,  
Suite 1200, Wilmington, Delaware 19801 USA  
Tel: +1-518-618-1030  
USA – Canada Toll Free: 866-552-3453  
Website: <https://www.transparencymarketresearch.com>  
Email: [sales@transparencymarketresearch.com](mailto:sales@transparencymarketresearch.com)  
Follow Us: LinkedIn | Twitter | Blog | YouTube

Atil Chaudhari  
Transparency Market Research Inc.  
+ +1 518-618-1030  
[email us here](#)

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