

# Bone Void Fillers Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 - 2034

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## Abstracts

The Global Bone Void Fillers Market was valued at USD 3.6 billion in 2024 and is estimated to grow at a CAGR of 6.9% to reach USD 7 billion by 2034.

The market expansion is fueled by the rising number of orthopedic and trauma surgeries and the increasing prevalence of bone-related conditions, such as fractures and osteoporosis. A major trend is the shift from conventional autografts and allografts to synthetic and bioactive bone void fillers, including calcium phosphate, bioactive glass, and composite scaffolds. These alternatives provide predictable resorption rates, lower infection risks, and superior biocompatibility, making them ideal for widespread clinical use. The demand for injectable bone void fillers is also increasing, as they facilitate minimally invasive procedures, reduce surgical time, and improve patient recovery. Rising global life expectancy, urbanization, and the growing incidence of degenerative skeletal diseases and trauma-related injuries are further driving market growth, especially across both developed and emerging regions.

The demineralized bone matrix (DBM) segment held a 36.1% share in 2024 and is projected to grow at a CAGR of 6.1% during 2025-2034. DBM is favored for its high osteoinductive potential, biocompatibility, and versatility in clinical applications. Derived from processed allograft bone, DBM retains key organic components, including collagen, bone morphogenetic proteins, and growth factors, which promote new bone formation and effective graft integration. Available in multiple delivery formats, such as putty, paste, gel, and strips, it allows surgeons flexibility in orthopedic, trauma, and spinal fusion procedures.

The putty segment generated USD 1.5 billion in 2024 and is expected to grow at a CAGR of 7.2% through 2034. Surgeons prefer putty due to its cohesive, moldable

texture, which allows precise placement in irregular or complex bone defects. Its superior handling and adaptability make it ideal for applications in spinal fusion, craniofacial reconstruction, orthopedic trauma, and dental surgeries.

North America Bone Void Fillers Market held a 48.9% share in 2024. The region benefits from advanced healthcare infrastructure, high surgical volumes, and the presence of leading players offering minimally invasive solutions and innovative bone graft substitutes. Early adoption of bioactive and injectable fillers, along with significant investment in R&D and clinical trials, has reinforced North America's leadership in this sector.

Key companies operating in the Global Bone Void Fillers Market include Arthrex, Bioventus, Medline, Medtronic, Abyrx, Stryker, Baxter International, DePuy Synthes (Johnson & Johnson), Bonesupport, Acumed, and Zimmer Biomet. Companies in the Bone Void Fillers Market are enhancing their presence through strategic initiatives. They are investing in research and development to introduce advanced biomaterials with superior osteoinductivity, resorption rates, and biocompatibility. Partnerships and collaborations with hospitals, surgical centers, and distributors help expand market reach and improve adoption of innovative products. Mergers and acquisitions are used to strengthen technological capabilities and scale production. Firms are also focusing on regulatory approvals, product certifications, and clinical trials to enhance credibility.

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