

Orthopedic Bone Cement Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Material (Polymethyl Methacrylate (PMMA), Ceramic, Acrylic, Others), By Product Type (Low Viscosity Cements, Medium Viscosity Cements, High Viscosity Cements, Antibiotic Cements), By End-User (Hospitals, Orthopedic Clinics and Centers, Others), By Region and Competition, 2020-2030F

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Abstracts

Market Overview

The Global Orthopedic Bone Cement Market was valued at USD 777.57 Million in 2024 and is projected to reach USD 1102.26 Million by 2030, growing at a CAGR of 5.99% during the forecast period. Orthopedic bone cement plays a crucial role in modern orthopedic surgery by anchoring joint implants, such as hips and knees, to the surrounding bone structure. It is widely used in procedures aimed at restoring mobility and reducing pain in patients with musculoskeletal conditions. Market growth is fueled by the rising number of sports-related injuries and trauma cases resulting from road accidents. For instance, according to the National Safety Council, 3.7 million people in the U.S. sustained sports injuries in 2023. Additionally, the U.S. Department of Transportation reported 2.38 million non-fatal injuries from motor vehicle accidents in 2022. These incidents often require surgical interventions involving bone cement, thereby propelling market demand. Increasing adoption of joint replacement procedures, technological advancements in cement materials, and the growing elderly population further support market expansion.

Key Market Drivers

Aging Population

The rise in the global elderly population is a key driver for the orthopedic bone cement market. Older adults are more susceptible to conditions such as osteoarthritis, osteoporosis, and bone fractures, which often necessitate joint replacement surgeries. These procedures typically rely on bone cement for implant fixation. As per the World Health Organization, by 2030, one in six people globally will be over the age of 60, with the number expected to reach 1.4 billion, up from 1 billion in 2020. By 2050, this figure is projected to double to 2.1 billion, and the number of individuals over 80 years old is expected to triple to 426 million. This demographic shift significantly increases the demand for orthopedic procedures and, consequently, orthopedic bone cement.

Key Market Challenges

Stringent Regulatory Compliance

The orthopedic bone cement market faces significant challenges related to regulatory compliance. As a medical device, bone cement must adhere to rigorous quality and safety standards set by regulatory agencies such as the U.S. FDA and the European Medicines Agency (EMA). The approval process demands extensive clinical testing and documentation, often resulting in lengthy and costly development cycles. These regulatory requirements can delay product launches, increase operational costs, and act as a barrier for new market entrants, especially smaller firms.

Key Market Trends

Bioactive Bone Cements

An emerging trend in the orthopedic bone cement market is the development of bioactive formulations. These cements are designed to mimic the biological composition of bone and promote better integration between the implant and surrounding bone tissue. Incorporating compounds such as hydroxyapatite and tricalcium phosphate, bioactive bone cements enhance osseointegration and long-term implant stability. Their use is gaining traction in complex orthopedic cases where traditional cements may fall short, improving patient outcomes and reducing the risk of

revision surgeries.

Key Market Players

Stryker Corporation

Smith & Nephew PLC

Johnson & Johnson Services, Inc.

Zimmer Biomet Holdings, Inc.

Subiton LABORATORIOS SL S.A

Scanos

DJO Global Inc.

Arthrex Inc.

Tecres SpA

Synimed SARL

Report Scope:

In this report, the Global Orthopedic Bone Cement Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Orthopedic Bone Cement Market, By Material:

Polymethyl Methacrylate (PMMA)

Ceramic

Acrylic

Others

Orthopedic Bone Cement Market, By Product Type:

Low Viscosity Cements

Medium Viscosity Cements

High Viscosity Cements

Antibiotic Cements

Orthopedic Bone Cement Market, By End-User:

Hospitals

Orthopedic Clinics and Centers

Others

Orthopedic Bone Cement Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Italy

Spain

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Colombia

Middle East and Africa

South Africa

Saudi Arabia

UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Orthopedic Bone Cement Market.

Available Customizations:

Global Orthopedic Bone Cement market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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