

Biomaterials Market by Type (Metallic (Gold, Magnesium), Ceramic (Aluminum Oxide, Carbon), Polymer (Polyethylene, Polyester), Natural (Hyaluronic acid, Collagen, Gelatin)), Application (Orthopedic, Dental, CVD, Ophthalmology) - Global Forecast to 2029

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Report description:

The global biomaterials market is projected to reach USD 64.2 Bn by 2029 from USD 45.2 Bn in 2024, at a CAGR of 7.3% during the forecast period of 2024 to 2029. Factors such as the increasing awareness of sustainable and biodegradable materials are predicted to uplift the market in the coming years. Additionally, rising prevalence of chronic diseases and aging populations worldwide is driving the demand for medical implants which will provide lucrative market growth. However, biocompatibility issues associated with biomaterials are predicted to restrict the market.

"The metallic biomaterials segment held the dominant share in the biomaterials market."

Based on type, the global biomaterials market is segmented into polymeric (polymethylmethacrylate, polyethylene, polyester, polyvinylchloride, silicone rubber, nylon, polyetheretherketone, other polymeric biomaterials), metallic (stainless steel, titanium & titanium alloys, cobalt-chrome alloys, gold, silver, magnesium, and other metallic biomaterials), natural (hyaluronic acid, collagen, fibrin, cellulose, chitin, alginate, gelatin, chitosan, silk, other natural biomaterials), and ceramic (calcium phosphate, zirconia, aluminum oxide, calcium sulfate, carbon and glass). The conventional use of metallic biomaterials is expected to drive the expansion of the biomaterials market.

"The largest share of 2023 was occupied by the Orthopedic segment"

Based on application, the biomaterials market is classified into Tissue Engineering (Inorganic Nanoparticles, Nanomaterials, Scaffolds), Ophthalmology (Intraocular Lenses, Synthetic Corneas, Contact Lenses, Functional Replacement of Ocular Tissues, Other Ophthalmology Products), Neurological/Central Nervous System, (Neural Stem Cell Encapsulation Products, Cortical Neural

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Prosthetics, Hydrogel Scaffolds, Shunting Systems), Cardiovascular (Guidewires, Catheters, Implantable Cardiac Defibrillators, Stents, Sensors, Vascular Grafts, Heart Valves, Other Cardiovascular Products), Wound Healing (Internal Tissue Sealants, Surgical Hemostats, Hernia Meshes, Wound Closure Devices, [Staples, Sutures], Adhesion Barriers, Skin Substitutes), Urinary (Urethral Stents, Urinary Catheters, Other Urinary Products), Dental (Tissue Regeneration Materials, Dental Bone Grafts & Substitutes, Dental Membranes, Dental Implants), Plastic Surgery (Acellular Dermal Matrices, Facial Wrinkle Treatment Devices, Bioengineered Skins, Craniofacial Surgery Products, Soft Tissue Fillers, Peripheral Nerve Repair Devices), and Other Applications (Bariatric Surgery, Gastrointestinal, Drug Delivery Systems). This is due to the rise in the prevalence of musculoskeletal injuries, osteoporosis, and osteoarthritis and other orthopedic disorders.

"APAC region estimated to grow at a faster pace."

The biomaterials market is segmented into North America, Europe, Asia Pacific, Latin America, Middle East and Africa. APAC region is projected to grow at the highest CAGR during the forecast period. are expected to support biomaterials market growth in the region. Increasing awareness of personalized medicine, technological advancements and innovation and rising incidence of chronic diseases are the reasons which support market growth in this region.

The primary interviews conducted for this report can be categorized as follows:

- By Respondent: Supply Side- 80%, and Demand Side - 20%
- By Designation (Supply Side): Managers - 45%, CXOs & Directors - 30%, Executives- 25%
- By Region: North America -40%, Europe -25%, Asia-Pacific -20%, Latin America -10%, MEA- 5%

List of Companies Profiled in the Report:

- BASF SE (Germany)
- Covestro AG (Germany)
- Celanese Corporation (US)
- Carpenter Technology Corporation (US)
- DSM (Netherlands)
- Corbion NV (Netherlands)
- Evonik Industries AG (Germany)
- Victrex Plc (UK)
- CeramTec GmbH (Germany)
- Mitsubishi Chemical Group Corporation (Japan)
- CoorsTek Inc. (US)
- Berkeley Advanced Biomaterials (US)
- CAM Bioceramics B.V. (Netherlands)
- Zeus Company Inc. (US)
- AMETEK Inc.(US)
- GELITA AG (Germany)
- The RDI Group (Collagen Solutions (US) LLC)
- Biocomposites (England)
- Noble Biomaterials (US)
- Regenity (US)
- Kuraray Co. Ltd. (Japan)
- Solexis (US)
- Institut Straumann AG (Switzerland)
- Foster Corporation (US)
- CDI Products (US).

Research Coverage:

This report provides a detailed picture of the biomaterials market. It aims to estimate the size and future growth potential of the

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market across different segments, such as type, application and region. The report also includes an in-depth competitive analysis of the key market players, along with their company profiles, recent developments, and key market strategies.

Key Benefits of Buying the Report:

The report will help market leaders/new entrants by providing them with the closest approximations of the revenue numbers for the overall biomaterials market and its subsegments. It will also help stakeholders better understand the competitive landscape and gain more insights to better position their business and make suitable go-to-market strategies. This report will enable stakeholders to understand the market's pulse and provide them with information on the key market drivers, restraints, opportunities, and challenges.

The report provides insights on the following pointers:

-□Analysis of key drivers (Growing demand for biomaterials in wound healing and plastic surgery, growing use of biomaterials in various therapeutic areas, rising funding and investments in regenerative and personalized medicine and growing demand for implantable devices), restraints (Biocompatibility issues), opportunities (Growing interest in bioabsorbable biomaterials, expanding healthcare market in emerging economies, rising opportunities in personalized biomaterials, smart biomaterials, nanoengineered biomaterials, and sustainable biomaterials) and challenges (durability and long-term performance issues) are influencing the growth of biomaterials market.

-□Product Development/Innovation: Detailed insights on newly launched products of the biomaterials market.

-□Market Development: Comprehensive information about lucrative markets - the report analyses the biomaterials market across varied regions.

-□Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the biomaterials market.

-□Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players include BASF SE (Germany), Covestro AG (Germany), Celanese Corporation (US), Carpenter Technology Corporation (US), DSM (Netherlands), Corbion NV (Netherlands), Evonik Industries AG (Germany), Victrex Plc (UK), CeramTec GmbH (Germany), Mitsubishi Chemical Group Corporation (Japan), CoorsTek Inc. (US), Berkeley Advanced Biomaterials (US), CAM Bioceramics B.V. (Netherlands), Zeus Company Inc. (US), AMETEK Inc.(US), GELITA AG (Germany) and among others in the biomaterials market.

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