

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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Abstracts

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 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)

Solesis (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 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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TABLE 434 ASIA PACIFIC: BIOMATERIALS MARKET FOR OTHER APPLICATIONS,

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8.4.1 ASIA PACIFIC: RECESSION IMPACT

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8.4.2.1 Lucrative medical devices industry and large geriatric population to drive market

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TABLE 439 CHINA: BIOMATERIALS MARKET FOR NATURAL BIOMATERIALS, BY TYPE, 2022 2029 (USD MILLION)

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TABLE 456 CHINA: BIOMATERIALS MARKET FOR OTHER APPLICATIONS, BY TYPE, 2022 2029 (USD MILLION)

8.4.3 JAPAN

8.4.3.1 Growing medical devices industry and rising aging population to support market growth

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TABLE 460 JAPAN: BIOMATERIALS MARKET FOR POLYMERIC BIOMATERIALS, BY TYPE, 2022 2029 (USD MILLION)

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TABLE 462 JAPAN: BIOMATERIALS MARKET, BY APPLICATION, 2022 2029 (USD MILLION)

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TABLE 465 JAPAN: JOINT REPLACEMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

TABLE 466 JAPAN: SPINE SURGERIES MARKET, BY TYPE, 2022 2029 (USD MILLION)

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TABLE 469 JAPAN: FRACTURE FIXATION MARKET, BY TYPE, 2022 2029 (USD MILLION)

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TABLE 478 JAPAN: BIOMATERIALS MARKET FOR OTHER APPLICATIONS, BY TYPE, 2022 2029 (USD MILLION)

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8.4.4.1 Large population base and growing focus on medical tourism to aid market growth

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TABLE 482 INDIA: BIOMATERIALS MARKET FOR POLYMERIC BIOMATERIALS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 483 INDIA: BIOMATERIALS MARKET FOR NATURAL BIOMATERIALS, BY TYPE, 2022 2029 (USD MILLION)

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TABLE 487 INDIA: JOINT REPLACEMENT MARKET, BY TYPE, 2022 2029 (USD MILLION)

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TABLE 489 INDIA: MOTION PRESERVATION & DYNAMIC STABILIZATION MARKET, BY TYPE, 2022 2029 (USD MILLION)

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TABLE 494 INDIA: BIOMATERIALS MARKET FOR PLASTIC SURGERY APPLICATIONS, BY TYPE, 2022 2029 (USD MILLION)

TABLE 495 INDIA: BIOMATERIALS MARKET FOR WOUND HEALING APPLICATIONS, BY TYPE, 2022 2029 (USD MILLION)

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10.1.16 GELITA AG

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*Business Overview, Products/Services/Solutions Offered, MnM View, Key Strengths

and Right to Win, Strategic Choices Made, Weaknesses and Competitive Threats, Recent Developments might not be captured in case of unlisted companies.

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TABLE 905 SOLESIS: COMPANY OVERVIEW

10.2.7 INSTITUT STRAUMANN AG

TABLE 906 INSTITUT STRAUMANN AG: COMPANY OVERVIEW

10.2.8 FOSTER CORPORATION

TABLE 907 FOSTER CORPORATION: COMPANY OVERVIEW

10.2.9 CDI PRODUCTS

TABLE 908 CDI PRODUCTS: COMPANY OVERVIEW

11 APPENDIX

11.1 DISCUSSION GUIDE

11.2 KNOWLEDGESTORE: MARKETSSANDMARKETS SUBSCRIPTION PORTAL

11.3 CUSTOMIZATION OPTIONS

11.4 RELATED REPORTS

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