

South Korea Biomaterials Market Size, Share, Trends and Forecast by Type, Application, and Region, 2026-2034

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Abstracts

The South Korea biomaterials market size reached USD 2,635.4 Million in 2025. Looking forward, IMARC Group expects the market to reach USD 5,808.0 Million by 2034, exhibiting a growth rate (CAGR) of 8.90% during 2026-2034. The biomaterials market in South Korea is growing because of advancements in healthcare, medical applications, and the rising demand for specialized treatments due to an aging population. Additionally, the biotech industry's expansion, supported by strong research and innovation that requires advanced biomaterials in medical and clinical applications is increasing the South Korea biomaterials market share.

SOUTH KOREA BIOMATERIALS MARKET TRENDS:

Advances in Healthcare and Medical Applications

The biomaterials market in South Korea is greatly influenced by progress in healthcare and medical uses, especially as the demand for improved therapies rises. Biomaterials are vital in medical devices, tissue engineering, and regenerative medicine, as their integration progresses owing to the nation's strong healthcare infrastructure and dedication to advanced technology. The rapidly growing aging population in South Korea is catalyzing the demand for specialized medical care and cutting-edge biomaterials. As per the 2024 Statistics on the Aged, people aged 65 and above constitute 19.2% of the population, a percentage projected to exceed 20% by 2025 and hit 30% by 2036. This change in demographics requires the creation of enhanced biomaterials for surgical uses, prosthetic devices, and implants. Advancements in biocompatibility, biodegradability, and mechanical characteristics of biomaterials are essential for enhancing the efficacy of these therapies. Furthermore, rising number of

studies on biodegradable implants are transforming post-surgical healing and lowering complication risks in older patients. With healthcare expenditure on the rise, South Korea is placing greater emphasis on integrating biomaterials into essential medical therapies to address the increasing demands of its aging demographic. The ongoing emphasis on improving patient results, combined with rising investments in healthcare infrastructure, is bolstering the South Korea biomaterials market growth.

Expansion of the Biotech Industry

With the nation establishing itself as a worldwide leader in biotechnology, it takes advantage of robust research capabilities, a vast talent pool, and an emphasis on innovative solutions. The thriving biotech industry is making substantial investments in biomaterials to enhance progress in drug development, tissue regeneration, and cellular therapies. These advancements frequently rely on biomaterials, including regulated drug delivery systems and biocompatible frameworks for cellular development, to attain enhanced therapeutic results. With the ongoing growth of the biotech sector, the need for advanced biomaterials increases, particularly in research and clinical uses. The link between biotechnology and biomaterials cultivates opportunities for collaborations across industries and technology exchanges, fostering further growth. In 2024, President Yoon Suk Yeol revealed intentions for South Korea to boost its biotechnology sector's production five times, achieving \$149 billion by 2035, up from \$43 trillion in 2020. This bold estimate included a diverse array of biopharmaceutical products, medical devices, supplements, biomass, and biotechnology services, emphasizing the industry's potential. As these initiatives progress, the incorporation of biomaterials into biotech-led innovations remains vital for the advancement of new medical technologies and therapies, guaranteeing the development of both the biotech and biomaterials sectors in South Korea.

SOUTH KOREA BIOMATERIALS MARKET SEGMENTATION:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the country and regional levels for 2026-2034. Our report has categorized the market based on type and application.

Type Insights:

Natural Biomaterial

Metallic Biomaterial

Ceramic Biomaterial

Polymeric Biomaterial

The report has provided a detailed breakup and analysis of the market based on the type. This includes natural biomaterial, metallic biomaterial, ceramic biomaterial, and polymeric biomaterial.

Application Insights:

Neurology

Cardiology

Orthopedics

Wound Care

Dental

Plastic Surgery

Others

A detailed breakup and analysis of the market based on the application have also been provided in the report. This includes neurology, cardiology, orthopedics, wound care, dental, plastic surgery, and others.

Regional Insights:

Seoul Capital Area

Yeongnam (Southeastern Region)

Honam (Southwestern Region)

Hoseo (Central Region)

Others

The report has also provided a comprehensive analysis of all the major regional markets, which include Seoul Capital Area, Yeongnam (Southeastern Region), Honam (Southwestern Region), Hoseo (Central Region), and others.

COMPETITIVE LANDSCAPE:

The market research report has also provided a comprehensive analysis of the competitive landscape. Competitive analysis such as market structure, key player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided.

KEY QUESTIONS ANSWERED IN THIS REPORT

How has the South Korea biomaterials market performed so far and how will it perform in the coming years?

What is the breakup of the South Korea biomaterials market on the basis of type?

What is the breakup of the South Korea biomaterials market on the basis of application?

What is the breakup of the South Korea biomaterials market on the basis of region?

What are the various stages in the value chain of the South Korea biomaterials market?

What are the key driving factors and challenges in the South Korea biomaterials market?

What is the structure of the South Korea biomaterials market and who are the key players?

What is the degree of competition in the South Korea biomaterials market?

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