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Global Antimicrobial Coatings for Medical Devices Market 2023-2029

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Abstracts

An antimicrobial coating is a surface covering containing an active ingredient that makes it effective against bacterial and fungal growth. Antimicrobial coatings could include solvent, water-based, liquid, or powder coatings. Antimicrobial coatings are used in medical devices in order to destroy or inhibit the growth of microorganisms. With the widespread use of medical devices, medical device-associated biofilms continue to pose a serious threat to human health, and these biofilms have become the most important source of nosocomial infections. Applying antibacterial agents or antiadhesion agents to the surface of medical devices through surface engineering can effectively inhibit the adhesion and growth of microorganisms and prevent the formation of biofilms, which has become an important strategy for combatting biofilms related to medical devices. The global antimicrobial coatings for medical devices market was valued at USD 1,144 million in 2022 to USD 1,923 million by 2029, progressing at a CAGR of 7.7% from 2023 to 2029, according to Gen Consulting Company. The increase in the global population suffering from cardiovascular and other lifestyle-associated diseases is slated to increase the demand for surgical procedures. This, coupled with the growing incidence of nosocomial infections in hospitals, is expected to fuel the demand for antimicrobial coatings.The increase in the global population suffering from cardiovascular and other lifestyle-associated diseases is slated to increase the demand for surgical procedures. This, coupled with the growing incidence of nosocomial infections in hospitals, is expected to fuel the demand for antimicrobial coatings.

The report covers market size and growth, segmentation, regional breakdowns, competitive landscape, trends and strategies for global antimicrobial coatings for medical devices market. It presents a quantitative analysis of the market to enable stakeholders to capitalize on the prevailing market opportunities. The report also

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identifies top segments for opportunities and strategies based on market trends and leading competitors' approaches.

This industry report offers market estimates and forecasts of the global market, followed by a detailed analysis of the product, device type, application, end user, and region. The global market for antimicrobial coatings for medical devices can be segmented by product: metallic antimicrobial coatings (copper, silver, others), organic antimicrobial coatings (biguanides, chlorhexidines, phenolics, quaternary ammonium salts, others), polymeric antimicrobial coatings (polyphosphoethers, polyurethanes, polyvinylpyrollidone, others). The metallic antimicrobial coatings segment was the largest contributor to the global antimicrobial coatings for medical devices market in 2022. Antimicrobial coatings for medical devices market is further segmented by device type: catheters, implantable devices, surgical devices, others. According to the research, the catheters segment had the largest share in the global antimicrobial coatings for medical devices market. Based on application, the antimicrobial coatings for medical devices market is segmented into: cardiovascular, dentistry, general surgery, gynecology, orthopedics, others. The general surgery segment held the largest revenue share in 2022. On the basis of end user, the antimicrobial coatings for medical devices market also can be divided into: ambulatory surgical centers, diagnostic centers, hospitals, others. Globally, the hospitals segment made up the largest share of the antimicrobial coatings for medical devices market. Antimicrobial coatings for medical devices market by region is categorized into: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America.

The metallic antimicrobial coatings (by material) market is further segmented into copper, silver, others. The silver segment is estimated to account for the largest share of the global antimicrobial coatings for medical devices market. Furthermore, the polymeric antimicrobial coatings (by material) market has been categorized into polyphosphoethers, polyurethanes (PU), polyvinylpyrollidone (PVP), others. The PU segment held the largest share of the global antimicrobial coatings for medical devices market in 2022 and is anticipated to hold its share during the forecast period. The organic antimicrobial coatings (by material) market is further divided into biguanides, chlorhexidines, phenolics, quaternary ammonium salts (QAS), others. In 2022, the QAS segment made up the largest share of revenue generated by the antimicrobial coatings for medical devices market.

Market Segmentation
By product: metallic antimicrobial coatings (copper, silver, others), organic antimicrobial coatings (biguanides, chlorhexidines, phenolics, quaternary ammonium salts, others),

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polymeric antimicrobial coatings (polyphosphoethers, polyurethanes, polyvinylpyrollidone, others)
By device type: catheters, implantable devices, surgical devices, others
By application: cardiovascular, dentistry, general surgery, gynecology, orthopedics, others
By end user: ambulatory surgical centers, diagnostic centers, hospitals, others
By region: North America, Europe, Asia-Pacific, MEA (Middle East and Africa), Latin America

The report explores the recent developments and profiles of key vendors in the Global Antimicrobial Coatings for Medical Devices Market, including AST Products, Inc., Axalta Coating Systems, Ltd., BASF SE, BioCote Limited, BioInteractions Ltd., Covalon Technologies Ltd., Endura Coatings, LLC, Harland Medical Systems, Inc., Hydromer, Inc., Koninklijke DSM N.V., Microban International, Ltd., PPG Industries, Inc., Sciessent LLC, Sherwin-Williams Company, Specialty Coating Systems Inc. (Kisco Ltd.), among others. In this report, key players and their strategies are thoroughly analyzed to understand the competitive outlook of the market.
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Scope of the Report
To analyze and forecast the market size of the global antimicrobial coatings for medical devices market.
To classify and forecast the global antimicrobial coatings for medical devices market based on product, device type, application, end user, region.
To identify drivers and challenges for the global antimicrobial coatings for medical devices market.
To examine competitive developments such as mergers & acquisitions, agreements, collaborations and partnerships, etc., in the global antimicrobial coatings for medical devices market.
To identify and analyze the profile of leading players operating in the global antimicrobial coatings for medical devices market.

Why Choose This Report
Gain a reliable outlook of the global antimicrobial coatings for medical devices market forecasts from 2023 to 2029 across scenarios.
Identify growth segments for investment.
Stay ahead of competitors through company profiles and market data.
The market estimate for ease of analysis across scenarios in Excel format.
Strategy consulting and research support for three months.

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