Global Hydrophilic Coatings Market Information: by Substrate (polymers, glass & ceramics, metals, nanoparticles, and others), Application (medical devices & equipment, automotive, marine, optical, and others), and Region- Forecast till 2023

Hydrophilic Coatings Market is anticipated to grow at average CAGR during the forecast period 2017 -2023

Hydrophilic coatings reduce surface friction and enhance lubricity. This coating acts like a microscopic sponge and water provides excellent low friction characteristics as long as the coating remains wet.

The global hydrophilic coatings market is primarily driven by the increasing demand for controlled lubricity of medical devices surface. Hydrophilic coatings can be used in guidewires, catheters, and cannulas and reduce the occurrences of inflammation and damage caused by these devices when used on a patient. These coatings react with water and form a hydrogel material, which reduces insertion force and avoids possible puncture damage and makes it suitable for biological interactions. They exhibit antimicrobial properties and are biocompatible in nature thus preventing any chances of infections. The use of hydrophilic coatings as an anti-fog agent in automotive parts such as windshields and rear-view mirrors is likely to fuel the market growth further. These coatings are also used in ophthalmology for placing intraocular lenses (IOLs) devices to reduce the catastrophic bursting incidences and incision size. They are also used in optical devices such as camera windows, outdoor surveillance, and others. The demand for these coatings is rising in the marine industry as they reduce the kinematic friction between the coated boats and water surfaces. However, stringent regulation from the Food and Drug Administration (FDA) for 510K Clearance is likely to challenge the market growth. Nevertheless, the opportunities and development trends that can offer better growth are observed in the market include the drug delivery and biological interactions of hydrophilic coatings. In October 2016, Surmodics, Inc. announced the launch of a single coat formulation Serene Solutions, which meets the challenge of achieving the right balance of lubricity and durability of intravascular products. Other instance of the development of the market is the merger of AdvanSource Biomaterials Corp. with Medibrane, Ltd. in January 2017.

Global Hydrophilic Coatings, by the application (%)
Regional Analysis

The global hydrophilic coatings market is segmented into five regions of Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa.

Asia Pacific is the fastest emerging region in the global hydrophilic coatings market on account of the high production and sales of automotive and medical devices in the region. The emerging medical devices and equipment market is expected to reach USD 88.6 million by 2020. The growing automotive industry in India and China is likely to drive the global market further. The growing marine industry in China and Japan is another driver of the market.

The North American regional market is growing on account of the high production and exports of medical devices and reviving the automotive industry.

Increasing expenditure on better medical & healthcare facilities in Europe is expected to drive the global hydrophilic coatings market. The increasing production and exportation of automotive parts in Germany, the U.K, and other countries is anticipated to further fuel the market growth.

The increasing production and sales of automotive in Brazil is the major factor driving the global hydrophilic coatings market in the Latin American region.

Segmentation

The global hydrophilic coatings market is segmented on the basis of the substrate, application, and region.

The global hydrophilic coatings market is segmented on the basis of the substrate as polymers, glass & ceramics, metals, nanoparticles, and others.

By the application, the global hydrophilic coatings market is segmented into medical devices & equipment, automotive, marine, optical, and others.

Geographically, the global hydrophilic coatings market is spanned across five regions namely Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa.

Key Players

Some of the manufacturers operating in the global hydrophilic coatings market are Hydromer Inc. (U.S.), Abbott (U.S.), Corning Incorporated (U.S.), Harland Medical Systems (U.S.), Surmodics, Inc. (U.S.), DSM (Netherlands), Biocoat Incorporated (U.S.), Aculon (U.S.), AST Products, Inc. (U.S.), and AdvanSource Biomaterials Corp (U.S.).

Intended Audience

- Hydrophilic Coatings Manufacturers
- Traders and distributors of hydrophilic coatings
- Research and development institutes
- Potential investors
- Raw material suppliers
- Nationalized laboratory

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