

Biochemical Sensor Market (By Product: Piezoelectric Sensor, Thermal Sensor, Gas Sensor, Optical Sensor, and Electrochemical Sensor; By Film Deposition Material: Aluminium Oxide (AL₂O₃), Titanium Oxide (TiO₂), Silicon Oxide (SiO₂) and Fluorine Doped Tin Oxide (SnO₂:F); By Application: Environmental Monitoring, Clinical Diagnostics, Military, Food Quality Control and Others; By Geography: North America, Europe, Asia-Pacific, and RoW) Global Scenario, Market Size, Outlook, Trend and Forecast, 2015-2024

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Abstracts

Global Biochemical Sensor Market is forecasted to reach \$51 billion by 2024; growing at a CAGR of 14.6% from 2016 to 2024. Biochemical sensor is a type of sensor, which is used to transform any biological or chemical sample into analytical or electrical signal with the help of transducers. These sensors are highly used in the field of medical diagnosis, environmental monitoring, examining food quality and defence & safety. Increasing health awareness along with support from government initiatives for ensuring food safety which show increased biochemical sensor market trends.

Advancement in material chemistry & wireless sensor network, rising health awareness, rising incidents of motor vehicle accidents and increasing oil extraction are the key factors driving the global biochemical sensor market. However, limited commercialization due to complex product design along with incompatibility in real world application would restrain the market growth in coming years. Increasing application of wearable biochemical sensors in bio surveillance and defence would provide several

growth opportunities for the market in coming years.

The global biochemical sensor market is bifurcated on the basis of film deposition material, product and application. By film deposition material, the market is further divided into silicon oxide (SiO₂), titanium oxide (TiO₂), fluorine doped tin oxide (SnO₂:F) and aluminium oxide (AL₂O₃). The silicon oxide (SiO₂) segment accounted for the largest market share in the overall film deposition material segment in 2016, due to its small size and extensive utilization in clinical diagnosis devices and environmental monitoring devices. By product, the market is segmented into gas sensor, thermal sensor, piezoelectric sensor, optical sensor and electrochemical sensor. The electrochemical sensor segment accounted for the largest market share in 2016, owing to its high sensitivity and huge demand in chemical diagnosis. By application, the market is bifurcated into food quality control, environmental monitoring, clinical diagnostics, military, and others. The clinical diagnostics segment dominated the application segment accounting for more than one-third of the total market share in 2016, driven by its extensive usage during pregnancy test and diagnosis of glucose level in blood sample.

Geographically, the global biochemical sensor market is segmented into North America (U.S., Mexico and Canada), Europe (Germany, UK, France, Russia, Italy, and others), Asia-Pacific (China, India, Japan, and others) and RoW (South America, Middle East and Africa).

Major companies operating in the biochemical sensor market are GE Healthcare, Texas Instrument Inc., Thermo Fisher Scientific., Microchip Technology Inc., Polestar Technologies Inc., Bio-Rad Laboratories Inc., Universal Biosensor Inc., Honeywell International Inc., Melexis, and Nova Biomedical Corporation, among others.

The key takeaways from the report

The report will provide detailed analysis of the Global Biochemical Sensor Market with respect to major segments such as film deposition material, product and application

The report will include the qualitative and quantitative analysis with market estimation over 2015-2024 and compound annual growth rate (CAGR) between 2016 and 2024

Comprehensive analysis of market dynamics including factors and opportunities

of the Global Biochemical Sensor Market

An exhaustive regional analysis of Biochemical Sensor Market from 2015 to 2024 has been included in the report

Profile of the key players in the Biochemical Sensor Market, will be provided, which include key financials, product & services, new developments and business strategies

Scope of Biochemical Sensor Market

Film Deposition Material Segments

Silicon Oxide (SiO₂)

Titanium Oxide (TiO₂)

Fluorine Doped Tin Oxide (SnO₂:F)

Aluminium Oxide (Al₂O₃)

Product Segments

Gas Sensor

Thermal Sensor

Piezoelectric Sensor

Optical Sensor

Electrochemical Sensor

Application Segments

Food Quality Control

Environmental Monitoring

Clinical Diagnostics

Military

Others

Geographical Segments

North America

US

Canada

Mexico

Europe

Germany

France

United Kingdom

Spain

Others

Asia-Pacific

China

India

Japan

South Korea

Others

RoW

South America

Middle East

Africa

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