

Global Piezoelectric Materials Market Size study & Forecast, by Material Type (Composite, Ceramic, Polymeric), by Application (Actuators, Sensors, Motors, Acoustic Devices, SONAR, Others), by End-use (Automotive, Information Technology, Healthcare, Consumer Goods, Others) and Regional Analysis, 2023-2030

<https://marketpublishers.com/r/G5355E240593EN.html>

Date: October 2023

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: G5355E240593EN

Abstracts

Global Piezoelectric Materials Market is valued approximately USD 1.49 billion in 2022 and is anticipated to grow with a healthy growth rate of more than 6.2% over the forecast period 2023-2030. Piezoelectric materials are a class of materials that exhibit a phenomenon called the piezoelectric effect. The piezoelectric effect refers to the ability of certain materials to generate an electric charge in response to applied mechanical stress or, conversely, to deform in response to an applied electric field. The Piezoelectric Materials market is expanding because of factors such as increase in demand for consumer electronics and rising industrial automation. Piezoelectric materials can be used to convert mechanical pressure or strain into an electrical signal. They are widely used in sensors for measuring force, pressure, acceleration, and vibration. Its importance has progressively increased during the forecast period 2023-2030.

According to the Statista, the global revenue in the consumer electronics market is projected to reach up to USD 1.2 trillion by 2028 with growth rate of 12.21% in between 2023 and 2028. Furthermore, consumer electronics retail sales in the United States will reach 485 billion US dollars in 2023, according to predicted retail sales. Another important factor drives the Piezoelectric Materials market is increasing industrial automation. Piezoelectric materials can be utilized to control and dampen vibrations in

industrial equipment. Through incorporating piezoelectric elements into the structure of machines, vibrations can be detected and counteracted in real-time, reducing the risk of damage and improving overall operational stability. In addition, as per Statista, in 2020, the global industrial automation industry accounts approximately USD 175 billion and projected to be reach approximately \$265 billion USD by 2025. Moreover, growing demand of sensors and rising number of space exploration activities is anticipated to create a lucrative growth opportunity for the market over the forecast period. However, inconsistency of results and heavy stress and high temperature stifles market growth throughout the forecast period of 2023-2030.

The key regions considered for the Global Piezoelectric Materials Market study includes Asia Pacific, North America, Europe, Latin America, and Middle East & Africa. Asia Pacific dominated the market in 2022 owing to the emerged as a manufacturing hub for electronics and consumer goods in the region. Furthermore, North America is expected to grow significantly during the forecast period, owing to factors such as extensive space exploration programs and rising automotive industry in the region.

Major market player included in this report are:

Solvay

PI Ceramic GmbH

Piezo Kinetics Inc

Arkema S.A

TDK Electronics AG

Johnson Matthey plc

Piezomechanik Dr. Lutz Pickelmann GmbH

TRS Technologies, Inc

CeramTec GmbH

Sparkler Ceramics Pvt. Ltd

Recent Developments in the Market:

In November 2022, CeramTec GmbH, based in Plochingen, Germany, has announced plans to expand its manufacturing site in Marktredwitz, Bavaria. The project will include a new production hall, and construction is expected to begin in 2023, subject to regulatory permission.

Global Piezoelectric Materials Market Report Scope:

Historical Data – 2020 - 2021

Base Year for Estimation – 2022

Forecast period - 2023-2030

Report Coverage - Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

Segments Covered - Material Type, Application, End-use, Region

Regional Scope - North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope - Free report customization (equivalent up to 8 analyst's working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within countries involved in the study.

The report also caters detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, it also incorporates potential opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Material Type

Composite

Ceramic

Polymeric

By Application

Actuators

Sensors

Motors

Acoustic Devices

SONAR

Others

By End-use

Information Technology

Healthcare

Consumer Goods

Automotive

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

Rest of Middle East & Africa

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