

Piezoelectric smart materials - Global Market Outlook (2017-2026)

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Abstracts

According to Statistics MRC, the Global Piezoelectric Smart Materials Market is growing at a CAGR of 15% from 2017 to 2026. Increase in demand from military and aerospace sector, nanotechnology in smart materials and growing demand from construction are some key factors fostering the market growth. However, high cost of smart materials is restraining the market.

Piezoelectric materials generate an electric charge across its surface when it undergoes mechanical stress, due to the asymmetry of its crystalline structure. The effect is reversible, so an electrical charge will cause the material to change shape. This piezoelectric effect only occurs in non-conductive materials, such as quartz (SiO₂). Other materials are ceramics; however the most well-known piezoelectric material is Quartz. Piezoelectric materials are used as electromechanical transducers - actuators and sensors. As a sensor, it can be used as an acoustic pick-up on a guitar. The technology is small, and so the pick-up itself is portable and more convenient to the end-user than an amplifier.

Amongst Type, ceramics segment accounted steady growth of the global market. Ceramics are chemically hard and are resistant to humidity and other atmospheric influences. Such advantages will contribute to the growth of this market segment in the coming years. North America dominated the market due to the rising demand for MEMS in the automobile industry for the deployment in the airbags and anti-lock braking systems.

Some of the key players in Piezoelectric Smart Materials market include Wright Medical Group, TDK Corporation, Solvay, QorTek, NOLIAC, LORD Corporation, KYOCERA Corporation, CTS Corporation, Channel Technologies, CeramTec, Arkema, APC

International, Advanced Cerametrics and AAC Technologies.

End Users Covered:

Agriculture and Food

Construction and Infrastructure

Healthcare

Leisure and Sports

Transportation

Other End Users

Classifications Covered:

Piezoelectric Polymer

Piezoelectric Composites

Piezoelectric Ceramic

Crystal

Other Classifications

Types Covered:

Ceramics

Composites

Polymers

Applications Covered:

Transducers

Sensors

Semiconductor

National Defense

Motors

Construction Industry

Building Materials

Automobile Industry

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

Market share assessments for the regional and country level segments

Market share analysis of the top industry players

Strategic recommendations for the new entrants

Market forecasts for a minimum of 9 years of all the mentioned segments, sub segments and the regional markets

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

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