

Global Piezoelectric Ceramics Market Research Report 2022 Professional Edition

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Abstracts

The global Piezoelectric Ceramics market was valued at 8034.1 Million USD in 2021 and will grow with a CAGR of 2.82% from 2021 to 2027, based on HNY Research newly published report.

The prime objective of this report is to provide the insights on the post COVID-19 impact which will help market players in this field evaluate their business approaches. Also, this report covers market segmentation by major market vendors, types, applications/end users and geography(North America, East Asia, Europe, South Asia, Southeast Asia, Middle East, Africa, Oceania, South America).

The piezoelectric ceramic is a kind of functional ceramic materials which can create electricity when subjected to a mechanical stress. They will also work in reverse, generating a strain by the application of an electric field. In sensors they make it possible to convert forces, pressures and accelerations into electrical signals, and in sonic and ultrasonic transducers and actuators they convert electric voltages into vibrations or deformations. The Science Piezoelectric ceramic materials are ionically bonded and consist of atoms with positive and negative charges, called ions. These ions occupy positions in specific repeating units (called unit cells). If a unit cell is non-centro symmetric, i.e. lacking a centre of symmetry, then the application of a stress produces a net movement of the positive and negative ions with respect to each other and results in an electric dipole or polarisation. The degree of polarisation is dependent upon the stress and whether tensile or compressive stresses are applied affects the charge produced. The dipoles, which are present due to the non-centro symmetric structure, form domains that are regions where neighbouring dipoles have the same alignment. Initially the domains are randomly oriented (see figure on the left) and there is no overall polarisation of the ceramic and therefore it exhibits no piezoelectric effect.

By applying heat and a strong DC field the domains are subjected to `poling`, causing the domains that are nearly aligned to the field to grow at the expense of those at differing alignments. After cooling to room temperature and removing the DC field, the domains are `locked` resulting in an overall alignment and the material is now piezoelectric. The market for Lead Magnesium Niobate (PMN) held the largest share of the piezoelectric materials market owing to their high piezoelectric sensitivity and ability to acquire desired shapes and sizes. Currently, the most widely used piezoelectric ceramic material is PMN. It is used in a variety of applications, including medical, industrial, and automotive.

By Market Vendors:

Advanced Abrasives

Annon Piezo Technology Co. Limited.

APC International Ltd.

Bhalla Chemical Works Pvt. Ltd.

Central Electronics Limited

Ceradyne Inc.

Ceramic Magnetics Inc.

Ceramtec

Coorstek Inc.

CTS Corporation

Electro Ceramics (Thailand) Co. Ltd.

Friatec AG

GCI Electro-Ceramics Co.

Harris Corporation

Huntsman Corporation

Keltron Electro Ceramics Ltd.

Kyocera Corporation

Maruwa Co. Ltd.

Meggitt Sensing Systems

Morgan Advanced Materials

Rubicon Technology

Swiss Jewel Company

Taiyo Yuden

TCI Ceramics Inc.

Teledyne Reynolds Inc.

TRS Technologies Inc.

By Types:

Titanate

Zirconia

Alumina

By Applications:

High Dielectric Capacitors

Volatile Memories

Data and Information Storage

Energy Storage and Conversion

Environmental Monitoring

Key Indicators Analysed

Market Players & Competitor Analysis: The report covers the key players of the industry including Company Profile, Product Specifications, Production Capacity/Sales, Revenue, Price and Gross Margin 2016-2027 & Sales with a thorough analysis of the market's competitive landscape and detailed information on vendors and comprehensive details of factors that will challenge the growth of major market vendors.

Global and Regional Market Analysis: The report includes Global & Regional market status and outlook 2016-2027. Further the report provides break down details about each region & countries covered in the report. Identifying its sales, sales volume & revenue forecast. With detailed analysis by types and applications.

Market Trends: Market key trends which include Increased Competition and Continuous Innovations.

Opportunities and Drivers: Identifying the Growing Demands and New Technology

Porters Five Force Analysis: The report provides with the state of competition in industry depending on five basic forces: threat of new entrants, bargaining power of suppliers, bargaining power of buyers, threat of substitute products or services, and existing industry rivalry.

Key Reasons to Purchase

To gain insightful analyses of the market and have comprehensive understanding of the global market and its commercial landscape.

Assess the production processes, major issues, and solutions to mitigate the development risk.

To understand the most affecting driving and restraining forces in the market and its impact in the global market.

Learn about the market strategies that are being adopted by leading respective organizations.

To understand the future outlook and prospects for the market.

Besides the standard structure reports, we also provide custom research according to specific requirements

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APC International Ltd. Piezoelectric Ceramics Product Specification

Bhalla Chemical Works Pvt. Ltd. Piezoelectric Ceramics Product Specification

Central Electronics Limited Piezoelectric Ceramics Product Specification

Ceradyne Inc. Piezoelectric Ceramics Product Specification

Ceramic Magnetics Inc. Piezoelectric Ceramics Product Specification

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CTS Corporation Piezoelectric Ceramics Product Specification

Electro Ceramics (Thailand) Co. Ltd. Piezoelectric Ceramics Product Specification

Friatec AG Piezoelectric Ceramics Product Specification

GCI Electro-Ceramics Co. Piezoelectric Ceramics Product Specification

Harris Corporation Piezoelectric Ceramics Product Specification

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Keltron Electro Ceramics Ltd. Piezoelectric Ceramics Product Specification

Kyocera Corporation Piezoelectric Ceramics Product Specification

Maruwa Co. Ltd. Piezoelectric Ceramics Product Specification

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Rubicon Technology Piezoelectric Ceramics Product Specification

Swiss Jewel Company Piezoelectric Ceramics Product Specification

Taiyo Yuden Piezoelectric Ceramics Product Specification

TCI Ceramics Inc. Piezoelectric Ceramics Product Specification

Teledyne Reynolds Inc. Piezoelectric Ceramics Product Specification

TRS Technologies Inc. Piezoelectric Ceramics Product Specification

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