

Global Piezoelectric Ceramics Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Piezoelectric Ceramics market size was valued at USD 9359.3 million in 2023 and is forecast to a readjusted size of USD 12100 million by 2030 with a CAGR of 3.7% during review period.

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 major players in global Piezoelectric Ceramics market include MURATA, TDK, Konghong Corporation, etc. The top 3 players occupy about 35% shares of the global market. China and Japan are main markets, they occupy about 60% of the global market. Lead magnesium niobate (PMN) is the main type, with a share about 45%. Information & Telecommunication is the main application, which holds a share about 30%.

The Global Info Research report includes an overview of the development of the Piezoelectric Ceramics industry chain, the market status of Industrial & Manufacturing (Lead zinc titanates(PZT), Lead titanate (PT)), Automotive (Lead zinc titanates(PZT), Lead titanate (PT)), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Piezoelectric Ceramics.

Regionally, the report analyzes the Piezoelectric Ceramics markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Piezoelectric Ceramics market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Piezoelectric Ceramics market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Piezoelectric Ceramics industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., Lead zinc titanates(PZT), Lead titanate (PT)).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Piezoelectric Ceramics market.

Regional Analysis: The report involves examining the Piezoelectric Ceramics market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Piezoelectric Ceramics market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Piezoelectric Ceramics:

Company Analysis: Report covers individual Piezoelectric Ceramics manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Piezoelectric Ceramics This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Industrial & Manufacturing, Automotive).

Technology Analysis: Report covers specific technologies relevant to Piezoelectric Ceramics. It assesses the current state, advancements, and potential future developments in Piezoelectric Ceramics areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Piezoelectric Ceramics market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Piezoelectric Ceramics market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Lead zinc titanates(PZT)

Lead titanate (PT)

Lead magnesium niobate (PMN)

Others

Market segment by Application

Industrial & Manufacturing

Automotive

Information & Telecommunication

Medical Devices

Others

Major players covered

MURATA

TDK

MORGAN

TAIYO YUDEN

KYOCERA

CeramTec

PI Ceramic

Exelis

Sparkler Ceramics

KEPO Electronics

APC International

TRS

Noliac

SensorTech

Meggitt Sensing

Johnson Matthey

Kinetic Ceramics

Konghong Corporation

Jiakang Electronics

Datong Electronic

Audiowell

Honghua Electronic

Risun Electronic

Yuhai Electronic Ceramic

PANT

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Piezoelectric Ceramics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Piezoelectric Ceramics, with price, sales, revenue and global market share of Piezoelectric Ceramics from 2019 to 2024.

Chapter 3, the Piezoelectric Ceramics competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Piezoelectric Ceramics breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales

quantity, consumption value and market share for key countries in the world, from 2017 to 2023. and Piezoelectric Ceramics market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Piezoelectric Ceramics.

Chapter 14 and 15, to describe Piezoelectric Ceramics sales channel, distributors, customers, research findings and conclusion.

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