

Global Piezoelectric Ceramics Sales Market Report 2018

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Abstracts

This report studies the global Piezoelectric Ceramics market status and forecast, categorizes the global Piezoelectric Ceramics market size (value & volume) by key players, type, application, and region.

This report focuses on the top players in North America, Europe, China, Japan, Southeast Asia India and Other regions (Middle East & Africa, Central & 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.

In the global piezoelectric devices market, APAC held the highest share in 2015.

Globally, the largest amount of research on piezoelectric materials and devices is undertaken in Japan. Several experiments on microscale applications of piezoelectric technology have been carried out in Japan, including the usage of this technology in floors of train stations to generate electricity. Owing to this, the market in APAC is expected to grow at the highest rate in the coming years.

Global giant manufactures mainly distributed in Europe. The manufacturers in Japan have a long history and unshakable status in this field. Manufacturers such as MURATA and TDK have relative higher level of product's quality. As to British, MORGAN has become as a global leader. In Germany, CeramTec leads the technology development. Most of Chinese manufactures locate in Jiangsu, Guangdong and Zhejiang province.

The global Piezoelectric Ceramics market is valued at 7780 million US\$ in 2017 and will reach 9780 million US\$ by the end of 2025, growing at a CAGR of 2.9% during 2018-2025.

The major players covered in this report

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

Geographically, this report studies the key regions, focuses on product sales, value, market share and growth opportunity in these regions, covering

United States

Europe

China

Japan

Southeast Asia

India

We can also provide the customized separate regional or country-level reports, for the following regions:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Indonesia

Singapore

Rest of Asia-Pacific

Europe

Germany

France

UK

Italy

Spain

Russia

Rest of Europe

Central & South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Saudi Arabia

Turkey

Rest of Middle East & Africa

On the basis of product, this report displays the production, revenue, price, market share and growth rate of each type, primarily split into

By Materials Types

Lead zinc titanates(PZT)

Lead titanate (PT)

Lead magnesium niobate (PMN)

Others

By Shapes

Rings and discs

Cylinders

Rectangular plates

Monolithic multilayer actuators

Semispherical bodies

Standard tolerances

By Materials Characteristic

Hard Materials

Soft Materials

Custom Materials.

On the basis on the end users/applications, this report focuses on the status and outlook for major applications/end users, sales volume, market share and growth rate for each application, including

Industrial & Manufacturing

Automotive

Information & Telecommunication

Medical Devices

Others

The study objectives of this report are:

To analyze and study the global Piezoelectric Ceramics sales, value, status (2013-2017) and forecast (2018-2025);

To analyze the top players in North America, Europe, China, Japan, Southeast Asia and India, to study the sales, value and market share of top players in these regions.

Focuses on the key Piezoelectric Ceramics players, to study the sales, value, market share and development plans in future.

Focuses on the global key manufacturers, to define, describe and analyze the market competition landscape, SWOT analysis.

To define, describe and forecast the market by type, application and region.

To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints and risks.

To identify significant trends and factors driving or inhibiting the market growth.

To analyze the opportunities in the market for stakeholders by identifying the high growth segments.

To strategically analyze each submarket with respect to individual growth trend and their contribution to the market

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market

To strategically profile the key players and comprehensively analyze their growth strategies.

In this study, the years considered to estimate the market size of Piezoelectric Ceramics are as follows:

History Year: 2013-2017

Base Year: 2017

Estimated Year: 2018

Forecast Year 2018 to 2025

For the data information by region, company, type and application, 2017 is considered as the base year. Whenever data information was unavailable for the base year, the prior year has been considered.

Key Stakeholders

Piezoelectric Ceramics Manufacturers

Piezoelectric Ceramics Distributors/Traders/Wholesalers

Piezoelectric Ceramics Subcomponent Manufacturers

Industry Association

Downstream Vendors

Available Customizations

With the given market data, QYResearch offers customizations according to the company's specific needs. The following customization options are available for the report:

Regional and country-level analysis of the Piezoelectric Ceramics market, by end-use.

Detailed analysis and profiles of additional market players.

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