

# Piezoelectric Materials Market Size to Worth USD 2.19 Billion by 2032, CAGR of 4.7% during 2024-2032

Key companies covered in piezoelectric materials market report are PI Ceramics GmbH, CTS Corporation, CeramTec, Arkema, Solvay, Mad City Labs, Inc., and Others.

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/EINPresswire.com/ -- The global

[piezoelectric materials market](#) was

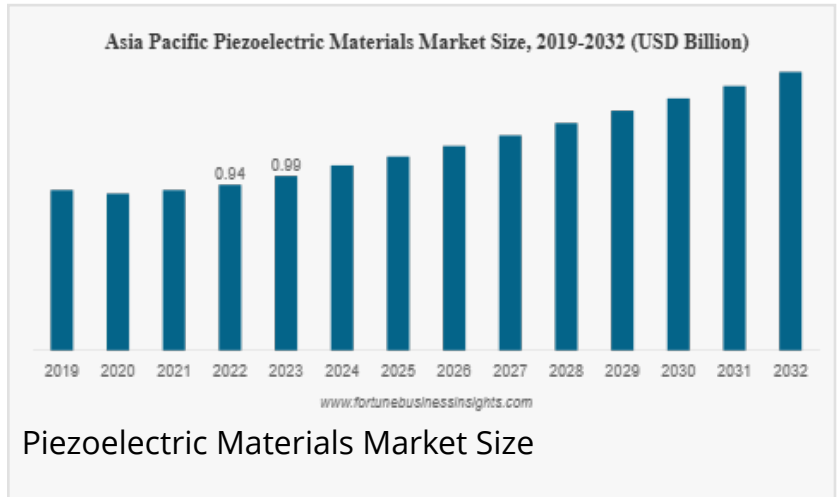
valued at USD 1.45 billion in 2023 and

is expected to grow from USD 1.52

billion in 2024 to USD 2.19 billion by

2032, with a compound annual growth rate (CAGR) of 4.7% over the forecast period (2024-2032).

In 2023, the Asia Pacific region led the market, accounting for a 68.28% share.



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The piezoelectric materials market in the U.S. is projected to grow significantly, reaching an estimated value of USD 248.48 billion by 2032, driven by the growing production of electronics.”

*Fortune Business Insights*

Piezoelectric materials generate an electric field when subjected to mechanical force and deform when exposed to an electric field, converting mechanical energy into electrical energy and vice versa. This property makes them transducers, commonly used to measure changes in speed, stress, strain, heat, or force by converting energy differentials into electrical charge.

Fortune Business Insights™ displays this information in a report titled, " Piezoelectric Materials Industry Share, Size, Global Report, and Forecast, 2024-2032."

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□ Segmentation Analysis:

### Global Piezoelectric Materials Market Share, By End-Use Industry, 2023

End-Use Industry	Market Share (%)
Automotive	18.0%
Healthcare	-
IT & Telecom	-
Consumer Goods	-
Aerospace & Defense	-
Others	-

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## Piezoelectric Materials Market Share

- PI Ceramics GmbH (Germany)
- APC International, Ltd. (U.S.)
- CTS Corporation (U.S.)
- L3Harris Technologies, Inc. (U.S.)

- CeramTec (Germany)
- Arkema (France)
- Solvay (Belgium)
- Mad City Labs, Inc. (U.S.)
- Piezosystem jena GmbH (Germany)
- Sparkler Ceramics (India)

## □ Key Factors Driving the Global Piezoelectric Materials Market

The global piezoelectric materials market is primarily driven by the increasing demand for piezoelectric materials in applications such as actuators, sensors, and medical devices. The growing use of these materials in the automotive, aerospace, and defense sectors is also propelling market growth. Additionally, advancements in healthcare technologies and the rise of smart devices are further boosting the need for piezoelectric materials.

## □ Challenges Hampering the Global Piezoelectric Materials Market Expansion

Despite its growth, the piezoelectric materials market faces several challenges. The high cost of piezoelectric materials, particularly piezoceramics, may limit their widespread adoption. Environmental concerns over the use of lead in certain piezoelectric materials, such as lead zirconate titanate (PZT), pose regulatory challenges. Additionally, the availability of alternatives like electroactive polymers may slow market expansion.

## □ Potential Growth Opportunities in the Global Piezoelectric Materials Market

The piezoelectric materials market offers several growth opportunities, particularly in emerging applications like wearable medical devices, renewable energy, and the Internet of Things (IoT). The shift towards environmentally friendly, lead-free piezoelectric materials is also expected to drive demand. Moreover, increasing investments in research and development (R&D) for enhancing material performance will open up new avenues for market expansion.

## □ Top Regions Leading the Market Growth

The top three regions in the global piezoelectric materials market are North America, Asia Pacific, and Europe. North America is witnessing significant growth due to the increasing adoption of advanced healthcare technologies and a strong demand for piezoelectric materials in the aerospace and defence sectors. In Asia Pacific, the market is expanding rapidly, driven by the rising demand for consumer electronics and the growth of the automotive industry, especially in key countries such as China, Japan, and South Korea. Europe, on the other hand, is experiencing growth due to advancements in healthcare, automotive innovations, and increasing investments in renewable energy projects.

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## □ Recent Major Developments in the Market

### Technological Developments:

**Thin-Film Bulk Acoustic Resonators (FBARs):** The integration of thin-film piezoelectric materials in FBARs has enhanced the performance of RF filters in wireless communication devices, supporting higher frequencies and improved signal quality.

**Energy Harvesting:** Piezoelectric materials are increasingly utilized in energy harvesting applications, converting mechanical strain from sources like human motion and environmental vibrations into electrical energy. This technology powers small devices and sensors, contributing to sustainable energy solutions.

### Industry Applications:

**Consumer Electronics:** Advancements in piezoelectric materials have led to the development of compact and efficient components in consumer electronics, enhancing device performance and user experience.

**Automotive Sector:** The automotive industry employs piezoelectric sensors for various applications, including engine management and safety systems, improving vehicle efficiency and safety.

**Healthcare Devices:** In healthcare, piezoelectric materials are used in medical imaging and diagnostic equipment, providing high-resolution imaging and precise diagnostics.

### Related Reports-

[Thermoplastic Composites Market](#) Size, Share & Report Analysis, 2032

[Conductive Silicone Rubber Market](#) Size, Demand, Trends & Forecasts, 2032

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