

Global Composites Piezoelectric Material 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 Composites Piezoelectric Material market size was valued at USD 243.7 million in 2023 and is forecast to a readjusted size of USD 423.9 million by 2030 with a CAGR of 8.2% during review period.

Composites Piezoelectric Material (or Piezoelectric composites) are a class of functional materials consisting of piezoelectric active materials and non-piezoelectric passive polymers, mechanically attached together to form different connectivities. These composites have several advantages compared to conventional piezoelectric ceramics and polymers, including improved electromechanical properties, mechanical flexibility and the ability to tailor properties by using several different connectivity patterns. These advantages have led to the improvement of overall transducer performance, such as transducer sensitivity and bandwidth, resulting in rapid implementation of piezoelectric composites in medical imaging ultrasounds and other acoustic transducers. Recently, new piezoelectric composite transducers have been developed with optimized composite components that have improved thermal stability and mechanical quality factors, making them promising candidates for high temperature, high power transducer applications, such as therapeutic ultrasound, high power ultrasonic wirebonding, high temperature non-destructive testing, and downhole energy harvesting.

Global Composites Piezoelectric Material key players include Arkema, UJRC, Solvay, Piezo Kinetics, MSI Transducers, etc. Global top five manufacturers hold a share about 40%.

North America is the largest market, with a share over 30%, followed by Europe and

China, both have a share about 40 percent.

In terms of product, 1-3 Type is the largest segment, with a share about 85%. And in terms of application, the largest application is Industrial, followed by Healthcare.

The Global Info Research report includes an overview of the development of the Composites Piezoelectric Material industry chain, the market status of Healthcare (1-3 Type, 2-2 Type), Aerospace & Defense (1-3 Type, 2-2 Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Composites Piezoelectric Material.

Regionally, the report analyzes the Composites Piezoelectric Material 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 Composites Piezoelectric Material market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Composites Piezoelectric Material 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 Composites Piezoelectric Material 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 Units), revenue generated, and market share of different by Type (e.g., 1-3 Type, 2-2 Type).

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 Composites Piezoelectric Material market.

Regional Analysis: The report involves examining the Composites Piezoelectric Material 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 Composites Piezoelectric Material market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Composites Piezoelectric Material:

Company Analysis: Report covers individual Composites Piezoelectric Material 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 Composites Piezoelectric Material. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Healthcare, Aerospace & Defense).

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

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Composites Piezoelectric Material 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

Composites Piezoelectric Material 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

1-3 Type

2-2 Type

Market segment by Application

Healthcare

Aerospace & Defense

Industrial

Others

Major players covered

Arkema

UJRC

Solvay

Piezo Kinetics

MSI Transducers Corp.

CeramTec

Morgan Advanced Materials

Johnson Matthey

Piezo Technologies

Meggitt Sensing

Smart Material Corporation

APC International

Innovia (Shanghai) Materials

Weifang Jude Electronic Co.,Ltd

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 Composites Piezoelectric Material product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Composites Piezoelectric Material 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 Composites Piezoelectric Material 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 Composites Piezoelectric Material.

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

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