

Global Lead-free Piezoelectric Powder Material Supply, Demand and Key Producers, 2023-2029

<https://marketpublishers.com/r/G02708DC4DDEEN.html>

Date: March 2023

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G02708DC4DDEEN

Abstracts

The global Lead-free Piezoelectric Powder Material market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Lead-free piezoelectric powder material is a kind of material with piezoelectric property without using lead. Piezoelectricity is the ability of some materials to generate electric charges in response to the applied mechanical stress. It is usually used in various electronic devices, including sensors, actuators and transducers. Lead-free piezoelectric powder materials are usually composed of bismuth, sodium, potassium or other rare earth elements. These materials have been found to have excellent piezoelectric properties and have been studied for various applications. Some potential applications of lead-free piezoelectric powder materials include energy acquisition, biomedical imaging, vibration control and acoustic sensors. In addition to piezoelectric properties, lead-free materials also have the advantages of environmental protection and safety, and can be used in various applications.

This report studies the global Lead-free Piezoelectric Powder Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lead-free Piezoelectric Powder Material, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lead-free Piezoelectric Powder Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Lead-free Piezoelectric Powder Material total production and demand, 2018-2029, (Tons)

Global Lead-free Piezoelectric Powder Material total production value, 2018-2029, (USD Million)

Global Lead-free Piezoelectric Powder Material production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Lead-free Piezoelectric Powder Material consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Lead-free Piezoelectric Powder Material domestic production, consumption, key domestic manufacturers and share

Global Lead-free Piezoelectric Powder Material production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Lead-free Piezoelectric Powder Material production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Lead-free Piezoelectric Powder Material production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global Lead-free Piezoelectric Powder Material market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include PI Ceramic GmbH, APC International Ltd, Piezo Kinetics Inc, Ferroperm Piezoceramics AS, Smart Material Corporation, CETC Crystal Technology Co., Ltd, Sensor Technology Ltd, Weifang Jude Electronic Co., Ltd and Meggitt Sensing Systems, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Lead-free Piezoelectric Powder Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Lead-free Piezoelectric Powder Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lead-free Piezoelectric Powder Material Market, Segmentation by Type

Sodium Potassium Niobate

Barium Titanate

Zinc Oxide

Aluminium Nitride

Global Lead-free Piezoelectric Powder Material Market, Segmentation by Application

Semiconductor

Medical Care

Aerospace

Industry

National Defense

Companies Profiled:

PI Ceramic GmbH

APC International Ltd

Piezo Kinetics Inc

Ferroperm Piezoceramics AS

Smart Material Corporation

CETC Crystal Technology Co., Ltd

Sensor Technology Ltd

Weifang Jude Electronic Co., Ltd

Meggitt Sensing Systems

CeramTec-ETEC GmbH

Morgan Advanced Materials

Piezomechanik Dr. Lutz Pickelmann GmbH

TDK Corporation

TRS Technologies, Inc

Piezo Technologies

CeramTec North America Corporation

Advanced Cerametrics, Inc

Key Questions Answered

1. How big is the global Lead-free Piezoelectric Powder Material market?
2. What is the demand of the global Lead-free Piezoelectric Powder Material market?
3. What is the year over year growth of the global Lead-free Piezoelectric Powder Material market?
4. What is the production and production value of the global Lead-free Piezoelectric Powder Material market?
5. Who are the key producers in the global Lead-free Piezoelectric Powder Material market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Lead-free Piezoelectric Powder Material Introduction
- 1.2 World Lead-free Piezoelectric Powder Material Supply & Forecast
 - 1.2.1 World Lead-free Piezoelectric Powder Material Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Lead-free Piezoelectric Powder Material Production (2018-2029)
 - 1.2.3 World Lead-free Piezoelectric Powder Material Pricing Trends (2018-2029)
- 1.3 World Lead-free Piezoelectric Powder Material Production by Region (Based on Production Site)
 - 1.3.1 World Lead-free Piezoelectric Powder Material Production Value by Region (2018-2029)
 - 1.3.2 World Lead-free Piezoelectric Powder Material Production by Region (2018-2029)
 - 1.3.3 World Lead-free Piezoelectric Powder Material Average Price by Region (2018-2029)
 - 1.3.4 North America Lead-free Piezoelectric Powder Material Production (2018-2029)
 - 1.3.5 Europe Lead-free Piezoelectric Powder Material Production (2018-2029)
 - 1.3.6 China Lead-free Piezoelectric Powder Material Production (2018-2029)
 - 1.3.7 Japan Lead-free Piezoelectric Powder Material Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Lead-free Piezoelectric Powder Material Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Lead-free Piezoelectric Powder Material Major Market Trends
- 1.5 Influence of COVID-19 and Russia-Ukraine War
 - 1.5.1 Influence of COVID-19
 - 1.5.2 Influence of Russia-Ukraine War

2 DEMAND SUMMARY

- 2.1 World Lead-free Piezoelectric Powder Material Demand (2018-2029)
- 2.2 World Lead-free Piezoelectric Powder Material Consumption by Region
 - 2.2.1 World Lead-free Piezoelectric Powder Material Consumption by Region (2018-2023)
 - 2.2.2 World Lead-free Piezoelectric Powder Material Consumption Forecast by Region (2024-2029)
- 2.3 United States Lead-free Piezoelectric Powder Material Consumption (2018-2029)

- 2.4 China Lead-free Piezoelectric Powder Material Consumption (2018-2029)
- 2.5 Europe Lead-free Piezoelectric Powder Material Consumption (2018-2029)
- 2.6 Japan Lead-free Piezoelectric Powder Material Consumption (2018-2029)
- 2.7 South Korea Lead-free Piezoelectric Powder Material Consumption (2018-2029)
- 2.8 ASEAN Lead-free Piezoelectric Powder Material Consumption (2018-2029)
- 2.9 India Lead-free Piezoelectric Powder Material Consumption (2018-2029)

3 WORLD LEAD-FREE PIEZOELECTRIC POWDER MATERIAL MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Lead-free Piezoelectric Powder Material Production Value by Manufacturer (2018-2023)
- 3.2 World Lead-free Piezoelectric Powder Material Production by Manufacturer (2018-2023)
- 3.3 World Lead-free Piezoelectric Powder Material Average Price by Manufacturer (2018-2023)
- 3.4 Lead-free Piezoelectric Powder Material Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Lead-free Piezoelectric Powder Material Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Lead-free Piezoelectric Powder Material in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for Lead-free Piezoelectric Powder Material in 2022
- 3.6 Lead-free Piezoelectric Powder Material Market: Overall Company Footprint Analysis
 - 3.6.1 Lead-free Piezoelectric Powder Material Market: Region Footprint
 - 3.6.2 Lead-free Piezoelectric Powder Material Market: Company Product Type Footprint
 - 3.6.3 Lead-free Piezoelectric Powder Material Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

4.1 United States VS China: Lead-free Piezoelectric Powder Material Production Value Comparison

4.1.1 United States VS China: Lead-free Piezoelectric Powder Material Production Value Comparison (2018 & 2022 & 2029)

4.1.2 United States VS China: Lead-free Piezoelectric Powder Material Production Value Market Share Comparison (2018 & 2022 & 2029)

4.2 United States VS China: Lead-free Piezoelectric Powder Material Production Comparison

4.2.1 United States VS China: Lead-free Piezoelectric Powder Material Production Comparison (2018 & 2022 & 2029)

4.2.2 United States VS China: Lead-free Piezoelectric Powder Material Production Market Share Comparison (2018 & 2022 & 2029)

4.3 United States VS China: Lead-free Piezoelectric Powder Material Consumption Comparison

4.3.1 United States VS China: Lead-free Piezoelectric Powder Material Consumption Comparison (2018 & 2022 & 2029)

4.3.2 United States VS China: Lead-free Piezoelectric Powder Material Consumption Market Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Lead-free Piezoelectric Powder Material Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Lead-free Piezoelectric Powder Material Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Lead-free Piezoelectric Powder Material Production Value (2018-2023)

4.4.3 United States Based Manufacturers Lead-free Piezoelectric Powder Material Production (2018-2023)

4.5 China Based Lead-free Piezoelectric Powder Material Manufacturers and Market Share

4.5.1 China Based Lead-free Piezoelectric Powder Material Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Lead-free Piezoelectric Powder Material Production Value (2018-2023)

4.5.3 China Based Manufacturers Lead-free Piezoelectric Powder Material Production (2018-2023)

4.6 Rest of World Based Lead-free Piezoelectric Powder Material Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Lead-free Piezoelectric Powder Material Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Lead-free Piezoelectric Powder Material Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Lead-free Piezoelectric Powder Material Production (2018-2023)

5 MARKET ANALYSIS BY TYPE

5.1 World Lead-free Piezoelectric Powder Material Market Size Overview by Type: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Type

5.2.1 Sodium Potassium Niobate

5.2.2 Barium Titanate

5.2.3 Zinc Oxide

5.2.4 Aluminium Nitride

5.3 Market Segment by Type

5.3.1 World Lead-free Piezoelectric Powder Material Production by Type (2018-2029)

5.3.2 World Lead-free Piezoelectric Powder Material Production Value by Type (2018-2029)

5.3.3 World Lead-free Piezoelectric Powder Material Average Price by Type (2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Lead-free Piezoelectric Powder Material Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Semiconductor

6.2.2 Medical Care

6.2.3 Aerospace

6.2.4 Industry

6.2.5 National Defense

6.3 Market Segment by Application

6.3.1 World Lead-free Piezoelectric Powder Material Production by Application (2018-2029)

6.3.2 World Lead-free Piezoelectric Powder Material Production Value by Application (2018-2029)

6.3.3 World Lead-free Piezoelectric Powder Material Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 PI Ceramic GmbH

7.1.1 PI Ceramic GmbH Details

7.1.2 PI Ceramic GmbH Major Business

7.1.3 PI Ceramic GmbH Lead-free Piezoelectric Powder Material Product and Services

7.1.4 PI Ceramic GmbH Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 PI Ceramic GmbH Recent Developments/Updates

7.1.6 PI Ceramic GmbH Competitive Strengths & Weaknesses

7.2 APC International Ltd

7.2.1 APC International Ltd Details

7.2.2 APC International Ltd Major Business

7.2.3 APC International Ltd Lead-free Piezoelectric Powder Material Product and Services

7.2.4 APC International Ltd Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 APC International Ltd Recent Developments/Updates

7.2.6 APC International Ltd Competitive Strengths & Weaknesses

7.3 Piezo Kinetics Inc

7.3.1 Piezo Kinetics Inc Details

7.3.2 Piezo Kinetics Inc Major Business

7.3.3 Piezo Kinetics Inc Lead-free Piezoelectric Powder Material Product and Services

7.3.4 Piezo Kinetics Inc Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.3.5 Piezo Kinetics Inc Recent Developments/Updates

7.3.6 Piezo Kinetics Inc Competitive Strengths & Weaknesses

7.4 Ferroperm Piezoceramics AS

7.4.1 Ferroperm Piezoceramics AS Details

7.4.2 Ferroperm Piezoceramics AS Major Business

7.4.3 Ferroperm Piezoceramics AS Lead-free Piezoelectric Powder Material Product and Services

7.4.4 Ferroperm Piezoceramics AS Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.4.5 Ferroperm Piezoceramics AS Recent Developments/Updates

7.4.6 Ferroperm Piezoceramics AS Competitive Strengths & Weaknesses

7.5 Smart Material Corporation

7.5.1 Smart Material Corporation Details

7.5.2 Smart Material Corporation Major Business

7.5.3 Smart Material Corporation Lead-free Piezoelectric Powder Material Product and Services

7.5.4 Smart Material Corporation Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.5.5 Smart Material Corporation Recent Developments/Updates

7.5.6 Smart Material Corporation Competitive Strengths & Weaknesses

7.6 CETC Crystal Technology Co., Ltd

7.6.1 CETC Crystal Technology Co., Ltd Details

7.6.2 CETC Crystal Technology Co., Ltd Major Business

7.6.3 CETC Crystal Technology Co., Ltd Lead-free Piezoelectric Powder Material Product and Services

7.6.4 CETC Crystal Technology Co., Ltd Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.6.5 CETC Crystal Technology Co., Ltd Recent Developments/Updates

7.6.6 CETC Crystal Technology Co., Ltd Competitive Strengths & Weaknesses

7.7 Sensor Technology Ltd

7.7.1 Sensor Technology Ltd Details

7.7.2 Sensor Technology Ltd Major Business

7.7.3 Sensor Technology Ltd Lead-free Piezoelectric Powder Material Product and Services

7.7.4 Sensor Technology Ltd Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.7.5 Sensor Technology Ltd Recent Developments/Updates

7.7.6 Sensor Technology Ltd Competitive Strengths & Weaknesses

7.8 Weifang Jude Electronic Co., Ltd

7.8.1 Weifang Jude Electronic Co., Ltd Details

7.8.2 Weifang Jude Electronic Co., Ltd Major Business

7.8.3 Weifang Jude Electronic Co., Ltd Lead-free Piezoelectric Powder Material Product and Services

7.8.4 Weifang Jude Electronic Co., Ltd Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.8.5 Weifang Jude Electronic Co., Ltd Recent Developments/Updates

7.8.6 Weifang Jude Electronic Co., Ltd Competitive Strengths & Weaknesses

7.9 Meggitt Sensing Systems

7.9.1 Meggitt Sensing Systems Details

7.9.2 Meggitt Sensing Systems Major Business

7.9.3 Meggitt Sensing Systems Lead-free Piezoelectric Powder Material Product and Services

7.9.4 Meggitt Sensing Systems Lead-free Piezoelectric Powder Material Production,

Price, Value, Gross Margin and Market Share (2018-2023)

7.9.5 Meggitt Sensing Systems Recent Developments/Updates

7.9.6 Meggitt Sensing Systems Competitive Strengths & Weaknesses

7.10 CeramTec-ETEC GmbH

7.10.1 CeramTec-ETEC GmbH Details

7.10.2 CeramTec-ETEC GmbH Major Business

7.10.3 CeramTec-ETEC GmbH Lead-free Piezoelectric Powder Material Product and Services

7.10.4 CeramTec-ETEC GmbH Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.10.5 CeramTec-ETEC GmbH Recent Developments/Updates

7.10.6 CeramTec-ETEC GmbH Competitive Strengths & Weaknesses

7.11 Morgan Advanced Materials

7.11.1 Morgan Advanced Materials Details

7.11.2 Morgan Advanced Materials Major Business

7.11.3 Morgan Advanced Materials Lead-free Piezoelectric Powder Material Product and Services

7.11.4 Morgan Advanced Materials Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.11.5 Morgan Advanced Materials Recent Developments/Updates

7.11.6 Morgan Advanced Materials Competitive Strengths & Weaknesses

7.12 Piezomechanik Dr. Lutz Pickelmann GmbH

7.12.1 Piezomechanik Dr. Lutz Pickelmann GmbH Details

7.12.2 Piezomechanik Dr. Lutz Pickelmann GmbH Major Business

7.12.3 Piezomechanik Dr. Lutz Pickelmann GmbH Lead-free Piezoelectric Powder Material Product and Services

7.12.4 Piezomechanik Dr. Lutz Pickelmann GmbH Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.12.5 Piezomechanik Dr. Lutz Pickelmann GmbH Recent Developments/Updates

7.12.6 Piezomechanik Dr. Lutz Pickelmann GmbH Competitive Strengths & Weaknesses

7.13 TDK Corporation

7.13.1 TDK Corporation Details

7.13.2 TDK Corporation Major Business

7.13.3 TDK Corporation Lead-free Piezoelectric Powder Material Product and Services

7.13.4 TDK Corporation Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.13.5 TDK Corporation Recent Developments/Updates

7.13.6 TDK Corporation Competitive Strengths & Weaknesses

7.14 TRS Technologies, Inc

7.14.1 TRS Technologies, Inc Details

7.14.2 TRS Technologies, Inc Major Business

7.14.3 TRS Technologies, Inc Lead-free Piezoelectric Powder Material Product and Services

7.14.4 TRS Technologies, Inc Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.14.5 TRS Technologies, Inc Recent Developments/Updates

7.14.6 TRS Technologies, Inc Competitive Strengths & Weaknesses

7.15 Piezo Technologies

7.15.1 Piezo Technologies Details

7.15.2 Piezo Technologies Major Business

7.15.3 Piezo Technologies Lead-free Piezoelectric Powder Material Product and Services

7.15.4 Piezo Technologies Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 Piezo Technologies Recent Developments/Updates

7.15.6 Piezo Technologies Competitive Strengths & Weaknesses

7.16 CeramTec North America Corporation

7.16.1 CeramTec North America Corporation Details

7.16.2 CeramTec North America Corporation Major Business

7.16.3 CeramTec North America Corporation Lead-free Piezoelectric Powder Material Product and Services

7.16.4 CeramTec North America Corporation Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.16.5 CeramTec North America Corporation Recent Developments/Updates

7.16.6 CeramTec North America Corporation Competitive Strengths & Weaknesses

7.17 Advanced Cerametrics, Inc

7.17.1 Advanced Cerametrics, Inc Details

7.17.2 Advanced Cerametrics, Inc Major Business

7.17.3 Advanced Cerametrics, Inc Lead-free Piezoelectric Powder Material Product and Services

7.17.4 Advanced Cerametrics, Inc Lead-free Piezoelectric Powder Material Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.17.5 Advanced Cerametrics, Inc Recent Developments/Updates

7.17.6 Advanced Cerametrics, Inc Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

- 8.1 Lead-free Piezoelectric Powder Material Industry Chain
- 8.2 Lead-free Piezoelectric Powder Material Upstream Analysis
 - 8.2.1 Lead-free Piezoelectric Powder Material Core Raw Materials
 - 8.2.2 Main Manufacturers of Lead-free Piezoelectric Powder Material Core Raw Materials
- 8.3 Midstream Analysis
- 8.4 Downstream Analysis
- 8.5 Lead-free Piezoelectric Powder Material Production Mode
- 8.6 Lead-free Piezoelectric Powder Material Procurement Model
- 8.7 Lead-free Piezoelectric Powder Material Industry Sales Model and Sales Channels
 - 8.7.1 Lead-free Piezoelectric Powder Material Sales Model
 - 8.7.2 Lead-free Piezoelectric Powder Material Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

- 10.1 Methodology
- 10.2 Research Process and Data Source
- 10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Lead-free Piezoelectric Powder Material Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Lead-free Piezoelectric Powder Material Production Value by Region (2018-2023) & (USD Million)

Table 3. World Lead-free Piezoelectric Powder Material Production Value by Region (2024-2029) & (USD Million)

Table 4. World Lead-free Piezoelectric Powder Material Production Value Market Share by Region (2018-2023)

Table 5. World Lead-free Piezoelectric Powder Material Production Value Market Share by Region (2024-2029)

Table 6. World Lead-free Piezoelectric Powder Material Production by Region (2018-2023) & (Tons)

Table 7. World Lead-free Piezoelectric Powder Material Production by Region (2024-2029) & (Tons)

Table 8. World Lead-free Piezoelectric Powder Material Production Market Share by Region (2018-2023)

Table 9. World Lead-free Piezoelectric Powder Material Production Market Share by Region (2024-2029)

Table 10. World Lead-free Piezoelectric Powder Material Average Price by Region (2018-2023) & (US\$/Ton)

Table 11. World Lead-free Piezoelectric Powder Material Average Price by Region (2024-2029) & (US\$/Ton)

Table 12. Lead-free Piezoelectric Powder Material Major Market Trends

Table 13. World Lead-free Piezoelectric Powder Material Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World Lead-free Piezoelectric Powder Material Consumption by Region (2018-2023) & (Tons)

Table 15. World Lead-free Piezoelectric Powder Material Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World Lead-free Piezoelectric Powder Material Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Lead-free Piezoelectric Powder Material Producers in 2022

Table 18. World Lead-free Piezoelectric Powder Material Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key Lead-free Piezoelectric Powder Material Producers in 2022

Table 20. World Lead-free Piezoelectric Powder Material Average Price by Manufacturer (2018-2023) & (US\$/Ton)

Table 21. Global Lead-free Piezoelectric Powder Material Company Evaluation Quadrant

Table 22. World Lead-free Piezoelectric Powder Material Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Lead-free Piezoelectric Powder Material Production Site of Key Manufacturer

Table 24. Lead-free Piezoelectric Powder Material Market: Company Product Type Footprint

Table 25. Lead-free Piezoelectric Powder Material Market: Company Product Application Footprint

Table 26. Lead-free Piezoelectric Powder Material Competitive Factors

Table 27. Lead-free Piezoelectric Powder Material New Entrant and Capacity Expansion Plans

Table 28. Lead-free Piezoelectric Powder Material Mergers & Acquisitions Activity

Table 29. United States VS China Lead-free Piezoelectric Powder Material Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Lead-free Piezoelectric Powder Material Production Comparison, (2018 & 2022 & 2029) & (Tons)

Table 31. United States VS China Lead-free Piezoelectric Powder Material Consumption Comparison, (2018 & 2022 & 2029) & (Tons)

Table 32. United States Based Lead-free Piezoelectric Powder Material Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Lead-free Piezoelectric Powder Material Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Lead-free Piezoelectric Powder Material Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Lead-free Piezoelectric Powder Material Production (2018-2023) & (Tons)

Table 36. United States Based Manufacturers Lead-free Piezoelectric Powder Material Production Market Share (2018-2023)

Table 37. China Based Lead-free Piezoelectric Powder Material Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Lead-free Piezoelectric Powder Material Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Lead-free Piezoelectric Powder Material

Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Lead-free Piezoelectric Powder Material Production (2018-2023) & (Tons)

Table 41. China Based Manufacturers Lead-free Piezoelectric Powder Material Production Market Share (2018-2023)

Table 42. Rest of World Based Lead-free Piezoelectric Powder Material Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Lead-free Piezoelectric Powder Material Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Lead-free Piezoelectric Powder Material Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Lead-free Piezoelectric Powder Material Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers Lead-free Piezoelectric Powder Material Production Market Share (2018-2023)

Table 47. World Lead-free Piezoelectric Powder Material Production Value by Type, (USD Million), 2018 & 2022 & 2029

Table 48. World Lead-free Piezoelectric Powder Material Production by Type (2018-2023) & (Tons)

Table 49. World Lead-free Piezoelectric Powder Material Production by Type (2024-2029) & (Tons)

Table 50. World Lead-free Piezoelectric Powder Material Production Value by Type (2018-2023) & (USD Million)

Table 51. World Lead-free Piezoelectric Powder Material Production Value by Type (2024-2029) & (USD Million)

Table 52. World Lead-free Piezoelectric Powder Material Average Price by Type (2018-2023) & (US\$/Ton)

Table 53. World Lead-free Piezoelectric Powder Material Average Price by Type (2024-2029) & (US\$/Ton)

Table 54. World Lead-free Piezoelectric Powder Material Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Lead-free Piezoelectric Powder Material Production by Application (2018-2023) & (Tons)

Table 56. World Lead-free Piezoelectric Powder Material Production by Application (2024-2029) & (Tons)

Table 57. World Lead-free Piezoelectric Powder Material Production Value by Application (2018-2023) & (USD Million)

Table 58. World Lead-free Piezoelectric Powder Material Production Value by Application (2024-2029) & (USD Million)

Table 59. World Lead-free Piezoelectric Powder Material Average Price by Application (2018-2023) & (US\$/Ton)

Table 60. World Lead-free Piezoelectric Powder Material Average Price by Application (2024-2029) & (US\$/Ton)

Table 61. PI Ceramic GmbH Basic Information, Manufacturing Base and Competitors

Table 62. PI Ceramic GmbH Major Business

Table 63. PI Ceramic GmbH Lead-free Piezoelectric Powder Material Product and Services

Table 64. PI Ceramic GmbH Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. PI Ceramic GmbH Recent Developments/Updates

Table 66. PI Ceramic GmbH Competitive Strengths & Weaknesses

Table 67. APC International Ltd Basic Information, Manufacturing Base and Competitors

Table 68. APC International Ltd Major Business

Table 69. APC International Ltd Lead-free Piezoelectric Powder Material Product and Services

Table 70. APC International Ltd Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. APC International Ltd Recent Developments/Updates

Table 72. APC International Ltd Competitive Strengths & Weaknesses

Table 73. Piezo Kinetics Inc Basic Information, Manufacturing Base and Competitors

Table 74. Piezo Kinetics Inc Major Business

Table 75. Piezo Kinetics Inc Lead-free Piezoelectric Powder Material Product and Services

Table 76. Piezo Kinetics Inc Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Piezo Kinetics Inc Recent Developments/Updates

Table 78. Piezo Kinetics Inc Competitive Strengths & Weaknesses

Table 79. Ferroperm Piezoceramics AS Basic Information, Manufacturing Base and Competitors

Table 80. Ferroperm Piezoceramics AS Major Business

Table 81. Ferroperm Piezoceramics AS Lead-free Piezoelectric Powder Material Product and Services

Table 82. Ferroperm Piezoceramics AS Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and

Market Share (2018-2023)

Table 83. Ferroperm Piezoceramics AS Recent Developments/Updates

Table 84. Ferroperm Piezoceramics AS Competitive Strengths & Weaknesses

Table 85. Smart Material Corporation Basic Information, Manufacturing Base and Competitors

Table 86. Smart Material Corporation Major Business

Table 87. Smart Material Corporation Lead-free Piezoelectric Powder Material Product and Services

Table 88. Smart Material Corporation Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Smart Material Corporation Recent Developments/Updates

Table 90. Smart Material Corporation Competitive Strengths & Weaknesses

Table 91. CETC Crystal Technology Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 92. CETC Crystal Technology Co., Ltd Major Business

Table 93. CETC Crystal Technology Co., Ltd Lead-free Piezoelectric Powder Material Product and Services

Table 94. CETC Crystal Technology Co., Ltd Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 95. CETC Crystal Technology Co., Ltd Recent Developments/Updates

Table 96. CETC Crystal Technology Co., Ltd Competitive Strengths & Weaknesses

Table 97. Sensor Technology Ltd Basic Information, Manufacturing Base and Competitors

Table 98. Sensor Technology Ltd Major Business

Table 99. Sensor Technology Ltd Lead-free Piezoelectric Powder Material Product and Services

Table 100. Sensor Technology Ltd Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 101. Sensor Technology Ltd Recent Developments/Updates

Table 102. Sensor Technology Ltd Competitive Strengths & Weaknesses

Table 103. Weifang Jude Electronic Co., Ltd Basic Information, Manufacturing Base and Competitors

Table 104. Weifang Jude Electronic Co., Ltd Major Business

Table 105. Weifang Jude Electronic Co., Ltd Lead-free Piezoelectric Powder Material Product and Services

Table 106. Weifang Jude Electronic Co., Ltd Lead-free Piezoelectric Powder Material

Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 107. Weifang Jude Electronic Co., Ltd Recent Developments/Updates

Table 108. Weifang Jude Electronic Co., Ltd Competitive Strengths & Weaknesses

Table 109. Meggitt Sensing Systems Basic Information, Manufacturing Base and Competitors

Table 110. Meggitt Sensing Systems Major Business

Table 111. Meggitt Sensing Systems Lead-free Piezoelectric Powder Material Product and Services

Table 112. Meggitt Sensing Systems Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 113. Meggitt Sensing Systems Recent Developments/Updates

Table 114. Meggitt Sensing Systems Competitive Strengths & Weaknesses

Table 115. CeramTec-ETEC GmbH Basic Information, Manufacturing Base and Competitors

Table 116. CeramTec-ETEC GmbH Major Business

Table 117. CeramTec-ETEC GmbH Lead-free Piezoelectric Powder Material Product and Services

Table 118. CeramTec-ETEC GmbH Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 119. CeramTec-ETEC GmbH Recent Developments/Updates

Table 120. CeramTec-ETEC GmbH Competitive Strengths & Weaknesses

Table 121. Morgan Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 122. Morgan Advanced Materials Major Business

Table 123. Morgan Advanced Materials Lead-free Piezoelectric Powder Material Product and Services

Table 124. Morgan Advanced Materials Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. Morgan Advanced Materials Recent Developments/Updates

Table 126. Morgan Advanced Materials Competitive Strengths & Weaknesses

Table 127. Piezomechanik Dr. Lutz Pickelmann GmbH Basic Information, Manufacturing Base and Competitors

Table 128. Piezomechanik Dr. Lutz Pickelmann GmbH Major Business

Table 129. Piezomechanik Dr. Lutz Pickelmann GmbH Lead-free Piezoelectric Powder Material Product and Services

Table 130. Piezomechanik Dr. Lutz Pickelmann GmbH Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Piezomechanik Dr. Lutz Pickelmann GmbH Recent Developments/Updates

Table 132. Piezomechanik Dr. Lutz Pickelmann GmbH Competitive Strengths & Weaknesses

Table 133. TDK Corporation Basic Information, Manufacturing Base and Competitors

Table 134. TDK Corporation Major Business

Table 135. TDK Corporation Lead-free Piezoelectric Powder Material Product and Services

Table 136. TDK Corporation Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. TDK Corporation Recent Developments/Updates

Table 138. TDK Corporation Competitive Strengths & Weaknesses

Table 139. TRS Technologies, Inc Basic Information, Manufacturing Base and Competitors

Table 140. TRS Technologies, Inc Major Business

Table 141. TRS Technologies, Inc Lead-free Piezoelectric Powder Material Product and Services

Table 142. TRS Technologies, Inc Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. TRS Technologies, Inc Recent Developments/Updates

Table 144. TRS Technologies, Inc Competitive Strengths & Weaknesses

Table 145. Piezo Technologies Basic Information, Manufacturing Base and Competitors

Table 146. Piezo Technologies Major Business

Table 147. Piezo Technologies Lead-free Piezoelectric Powder Material Product and Services

Table 148. Piezo Technologies Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 149. Piezo Technologies Recent Developments/Updates

Table 150. Piezo Technologies Competitive Strengths & Weaknesses

Table 151. CeramTec North America Corporation Basic Information, Manufacturing Base and Competitors

Table 152. CeramTec North America Corporation Major Business

Table 153. CeramTec North America Corporation Lead-free Piezoelectric Powder Material Product and Services

Table 154. CeramTec North America Corporation Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 155. CeramTec North America Corporation Recent Developments/Updates

Table 156. Advanced Cerametrics, Inc Basic Information, Manufacturing Base and Competitors

Table 157. Advanced Cerametrics, Inc Major Business

Table 158. Advanced Cerametrics, Inc Lead-free Piezoelectric Powder Material Product and Services

Table 159. Advanced Cerametrics, Inc Lead-free Piezoelectric Powder Material Production (Tons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 160. Global Key Players of Lead-free Piezoelectric Powder Material Upstream (Raw Materials)

Table 161. Lead-free Piezoelectric Powder Material Typical Customers

Table 162. Lead-free Piezoelectric Powder Material Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Lead-free Piezoelectric Powder Material Picture

Figure 2. World Lead-free Piezoelectric Powder Material Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Lead-free Piezoelectric Powder Material Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Lead-free Piezoelectric Powder Material Production (2018-2029) & (Tons)

Figure 5. World Lead-free Piezoelectric Powder Material Average Price (2018-2029) & (US\$/Ton)

Figure 6. World Lead-free Piezoelectric Powder Material Production Value Market Share by Region (2018-2029)

Figure 7. World Lead-free Piezoelectric Powder Material Production Market Share by Region (2018-2029)

Figure 8. North America Lead-free Piezoelectric Powder Material Production (2018-2029) & (Tons)

Figure 9. Europe Lead-free Piezoelectric Powder Material Production (2018-2029) & (Tons)

Figure 10. China Lead-free Piezoelectric Powder Material Production (2018-2029) & (Tons)

Figure 11. Japan Lead-free Piezoelectric Powder Material Production (2018-2029) & (Tons)

Figure 12. Lead-free Piezoelectric Powder Material Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 15. World Lead-free Piezoelectric Powder Material Consumption Market Share by Region (2018-2029)

Figure 16. United States Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 17. China Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 18. Europe Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 19. Japan Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 20. South Korea Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 21. ASEAN Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 22. India Lead-free Piezoelectric Powder Material Consumption (2018-2029) & (Tons)

Figure 23. Producer Shipments of Lead-free Piezoelectric Powder Material by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Lead-free Piezoelectric Powder Material Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Lead-free Piezoelectric Powder Material Markets in 2022

Figure 26. United States VS China: Lead-free Piezoelectric Powder Material Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Lead-free Piezoelectric Powder Material Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Lead-free Piezoelectric Powder Material Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Lead-free Piezoelectric Powder Material Production Market Share 2022

Figure 30. China Based Manufacturers Lead-free Piezoelectric Powder Material Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Lead-free Piezoelectric Powder Material Production Market Share 2022

Figure 32. World Lead-free Piezoelectric Powder Material Production Value by Type, (USD Million), 2018 & 2022 & 2029

Figure 33. World Lead-free Piezoelectric Powder Material Production Value Market Share by Type in 2022

Figure 34. Sodium Potassium Niobate

Figure 35. Barium Titanate

Figure 36. Zinc Oxide

Figure 37. Aluminium Nitride

Figure 38. World Lead-free Piezoelectric Powder Material Production Market Share by Type (2018-2029)

Figure 39. World Lead-free Piezoelectric Powder Material Production Value Market Share by Type (2018-2029)

Figure 40. World Lead-free Piezoelectric Powder Material Average Price by Type (2018-2029) & (US\$/Ton)

Figure 41. World Lead-free Piezoelectric Powder Material Production Value by

Application, (USD Million), 2018 & 2022 & 2029

Figure 42. World Lead-free Piezoelectric Powder Material Production Value Market Share by Application in 2022

Figure 43. Semiconductor

Figure 44. Medical Care

Figure 45. Aerospace

Figure 46. Industry

Figure 47. National Defense

Figure 48. World Lead-free Piezoelectric Powder Material Production Market Share by Application (2018-2029)

Figure 49. World Lead-free Piezoelectric Powder Material Production Value Market Share by Application (2018-2029)

Figure 50. World Lead-free Piezoelectric Powder Material Average Price by Application (2018-2029) & (US\$/Ton)

Figure 51. Lead-free Piezoelectric Powder Material Industry Chain

Figure 52. Lead-free Piezoelectric Powder Material Procurement Model

Figure 53. Lead-free Piezoelectric Powder Material Sales Model

Figure 54. Lead-free Piezoelectric Powder Material Sales Channels, Direct Sales, and Distribution

Figure 55. Methodology

Figure 56. Research Process and Data Source

I would like to order

Product name: Global Lead-free Piezoelectric Powder Material Supply, Demand and Key Producers, 2023-2029

Product link: <https://marketpublishers.com/r/G02708DC4DDEEN.html>

Price: US\$ 4,480.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G02708DC4DDEEN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

