

Global Zno (Zinc Oxide) Varistors Market Research Report 2025(Status and Outlook)

<https://marketpublishers.com/r/GCA58FEFE86EEN.html>

Date: October 2025

Pages: 141

Price: US\$ 3,200.00 (Single User License)

ID: GCA58FEFE86EEN

Abstracts

Zinc oxide varistors are specialized electronic components that function as voltage-dependent resistors, primarily utilized for transient voltage suppression and overvoltage protection in various electrical and electronic systems. These devices exhibit a highly nonlinear current-voltage characteristic, maintaining a high resistance state under normal operating conditions but rapidly transitioning to a low resistance state when subjected to voltage surges beyond a predefined threshold, thereby shunting excess current and safeguarding sensitive equipment from damage. Their composition typically involves a ceramic matrix of zinc oxide grains with small additions of other metal oxides, such as bismuth, cobalt, or manganese, which form intergranular barriers responsible for the distinctive electrical behavior. Commonly applied in power distribution networks, industrial equipment, consumer electronics, and automotive systems, ZnO varistors are valued for their fast response times, high energy absorption capabilities, and ability to withstand repetitive surge events, though their performance may degrade over time with excessive electrical stress.

The global Zno (Zinc Oxide) Varistors market size was estimated at USD 3218.5 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 6.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Zno (Zinc Oxide) Varistors market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the

industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Zno (Zinc Oxide) Varistors market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Zno (Zinc Oxide) Varistors market.

Global Zno (Zinc Oxide) Varistors Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Hitachi Energy
Toshiba
Meiden (Tridelta Meidensha)
Hubbell
Siemens
Lamco Industries
China XD Group
HENGDA ELECTRIC

Nanyang Jinniu Electric

Market Segmentation (by Type)

5kA ZnO Blocks
10kA ZnO Blocks
20kA ZnO Blocks

Market Segmentation (by Application)

Polymer Metal Oxide Lightning Arrester
Porcelain Metal Oxide Lightning Arrester

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Zno (Zinc Oxide) Varistors Market
Overview of the regional outlook of the Zno (Zinc Oxide) Varistors Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Zno (Zinc Oxide) Varistors Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Zno (Zinc Oxide) Varistors, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

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Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Zno (Zinc Oxide) Varistors

1.2 Key Market Segments

1.2.1 Zno (Zinc Oxide) Varistors Segment by Type

1.2.2 Zno (Zinc Oxide) Varistors Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 ZNO (ZINC OXIDE) VARISTORS MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Zno (Zinc Oxide) Varistors Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Zno (Zinc Oxide) Varistors Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 ZNO (ZINC OXIDE) VARISTORS MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Zno (Zinc Oxide) Varistors Product Life Cycle

3.3 Global Zno (Zinc Oxide) Varistors Sales by Manufacturers (2020-2025)

3.4 Global Zno (Zinc Oxide) Varistors Revenue Market Share by Manufacturers (2020-2025)

3.5 Zno (Zinc Oxide) Varistors Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Zno (Zinc Oxide) Varistors Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Zno (Zinc Oxide) Varistors Market Competitive Situation and Trends

3.8.1 Zno (Zinc Oxide) Varistors Market Concentration Rate

3.8.2 Global 5 and 10 Largest Zno (Zinc Oxide) Varistors Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 ZNO (ZINC OXIDE) VARISTORS INDUSTRY CHAIN ANALYSIS

4.1 Zno (Zinc Oxide) Varistors Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF ZNO (ZINC OXIDE) VARISTORS MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Zno (Zinc Oxide) Varistors Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Zno (Zinc Oxide) Varistors Market

5.7 ESG Ratings of Leading Companies

6 ZNO (ZINC OXIDE) VARISTORS MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Zno (Zinc Oxide) Varistors Sales Market Share by Type (2020-2025)

6.3 Global Zno (Zinc Oxide) Varistors Market Size Market Share by Type (2020-2025)

6.4 Global Zno (Zinc Oxide) Varistors Price by Type (2020-2025)

7 ZNO (ZINC OXIDE) VARISTORS MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Zno (Zinc Oxide) Varistors Market Sales by Application (2020-2025)
- 7.3 Global Zno (Zinc Oxide) Varistors Market Size (M USD) by Application (2020-2025)
- 7.4 Global Zno (Zinc Oxide) Varistors Sales Growth Rate by Application (2020-2025)

8 ZNO (ZINC OXIDE) VARISTORS MARKET SALES BY REGION

- 8.1 Global Zno (Zinc Oxide) Varistors Sales by Region
 - 8.1.1 Global Zno (Zinc Oxide) Varistors Sales by Region
 - 8.1.2 Global Zno (Zinc Oxide) Varistors Sales Market Share by Region
- 8.2 Global Zno (Zinc Oxide) Varistors Market Size by Region
 - 8.2.1 Global Zno (Zinc Oxide) Varistors Market Size by Region
 - 8.2.2 Global Zno (Zinc Oxide) Varistors Market Size Market Share by Region
- 8.3 North America
 - 8.3.1 North America Zno (Zinc Oxide) Varistors Sales by Country
 - 8.3.2 North America Zno (Zinc Oxide) Varistors Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Zno (Zinc Oxide) Varistors Sales by Country
 - 8.4.2 Europe Zno (Zinc Oxide) Varistors Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Zno (Zinc Oxide) Varistors Sales by Region
 - 8.5.2 Asia Pacific Zno (Zinc Oxide) Varistors Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Zno (Zinc Oxide) Varistors Sales by Country
 - 8.6.2 South America Zno (Zinc Oxide) Varistors Market Size by Country

8.6.3 Brazil Market Overview

8.6.4 Argentina Market Overview

8.6.5 Columbia Market Overview

8.7 Middle East and Africa

8.7.1 Middle East and Africa Zno (Zinc Oxide) Varistors Sales by Region

8.7.2 Middle East and Africa Zno (Zinc Oxide) Varistors Market Size by Region

8.7.3 Saudi Arabia Market Overview

8.7.4 UAE Market Overview

8.7.5 Egypt Market Overview

8.7.6 Nigeria Market Overview

8.7.7 South Africa Market Overview

9 ZNO (ZINC OXIDE) VARISTORS MARKET PRODUCTION BY REGION

9.1 Global Production of Zno (Zinc Oxide) Varistors by Region(2020-2025)

9.2 Global Zno (Zinc Oxide) Varistors Revenue Market Share by Region (2020-2025)

9.3 Global Zno (Zinc Oxide) Varistors Production, Revenue, Price and Gross Margin (2020-2025)

9.4 North America Zno (Zinc Oxide) Varistors Production

9.4.1 North America Zno (Zinc Oxide) Varistors Production Growth Rate (2020-2025)

9.4.2 North America Zno (Zinc Oxide) Varistors Production, Revenue, Price and Gross Margin (2020-2025)

9.5 Europe Zno (Zinc Oxide) Varistors Production

9.5.1 Europe Zno (Zinc Oxide) Varistors Production Growth Rate (2020-2025)

9.5.2 Europe Zno (Zinc Oxide) Varistors Production, Revenue, Price and Gross Margin (2020-2025)

9.6 Japan Zno (Zinc Oxide) Varistors Production (2020-2025)

9.6.1 Japan Zno (Zinc Oxide) Varistors Production Growth Rate (2020-2025)

9.6.2 Japan Zno (Zinc Oxide) Varistors Production, Revenue, Price and Gross Margin (2020-2025)

9.7 China Zno (Zinc Oxide) Varistors Production (2020-2025)

9.7.1 China Zno (Zinc Oxide) Varistors Production Growth Rate (2020-2025)

9.7.2 China Zno (Zinc Oxide) Varistors Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Hitachi Energy

10.1.1 Hitachi Energy Basic Information

- 10.1.2 Hitachi Energy Zno (Zinc Oxide) Varistors Product Overview
- 10.1.3 Hitachi Energy Zno (Zinc Oxide) Varistors Product Market Performance
- 10.1.4 Hitachi Energy Business Overview
- 10.1.5 Hitachi Energy SWOT Analysis
- 10.1.6 Hitachi Energy Recent Developments
- 10.2 Toshiba
 - 10.2.1 Toshiba Basic Information
 - 10.2.2 Toshiba Zno (Zinc Oxide) Varistors Product Overview
 - 10.2.3 Toshiba Zno (Zinc Oxide) Varistors Product Market Performance
 - 10.2.4 Toshiba Business Overview
 - 10.2.5 Toshiba SWOT Analysis
 - 10.2.6 Toshiba Recent Developments
- 10.3 Meiden (Tridelta Meidensha)
 - 10.3.1 Meiden (Tridelta Meidensha) Basic Information
 - 10.3.2 Meiden (Tridelta Meidensha) Zno (Zinc Oxide) Varistors Product Overview
 - 10.3.3 Meiden (Tridelta Meidensha) Zno (Zinc Oxide) Varistors Product Market Performance
 - 10.3.4 Meiden (Tridelta Meidensha) Business Overview
 - 10.3.5 Meiden (Tridelta Meidensha) SWOT Analysis
 - 10.3.6 Meiden (Tridelta Meidensha) Recent Developments
- 10.4 Hubbell
 - 10.4.1 Hubbell Basic Information
 - 10.4.2 Hubbell Zno (Zinc Oxide) Varistors Product Overview
 - 10.4.3 Hubbell Zno (Zinc Oxide) Varistors Product Market Performance
 - 10.4.4 Hubbell Business Overview
 - 10.4.5 Hubbell Recent Developments
- 10.5 Siemens
 - 10.5.1 Siemens Basic Information
 - 10.5.2 Siemens Zno (Zinc Oxide) Varistors Product Overview
 - 10.5.3 Siemens Zno (Zinc Oxide) Varistors Product Market Performance
 - 10.5.4 Siemens Business Overview
 - 10.5.5 Siemens Recent Developments
- 10.6 Lamco Industries
 - 10.6.1 Lamco Industries Basic Information
 - 10.6.2 Lamco Industries Zno (Zinc Oxide) Varistors Product Overview
 - 10.6.3 Lamco Industries Zno (Zinc Oxide) Varistors Product Market Performance
 - 10.6.4 Lamco Industries Business Overview
 - 10.6.5 Lamco Industries Recent Developments
- 10.7 China XD Group

- 10.7.1 China XD Group Basic Information
- 10.7.2 China XD Group Zno (Zinc Oxide) Varistors Product Overview
- 10.7.3 China XD Group Zno (Zinc Oxide) Varistors Product Market Performance
- 10.7.4 China XD Group Business Overview
- 10.7.5 China XD Group Recent Developments
- 10.8 HENGDA ELECTRIC
 - 10.8.1 HENGDA ELECTRIC Basic Information
 - 10.8.2 HENGDA ELECTRIC Zno (Zinc Oxide) Varistors Product Overview
 - 10.8.3 HENGDA ELECTRIC Zno (Zinc Oxide) Varistors Product Market Performance
 - 10.8.4 HENGDA ELECTRIC Business Overview
 - 10.8.5 HENGDA ELECTRIC Recent Developments
- 10.9 Nanyang Jinniu Electric
 - 10.9.1 Nanyang Jinniu Electric Basic Information
 - 10.9.2 Nanyang Jinniu Electric Zno (Zinc Oxide) Varistors Product Overview
 - 10.9.3 Nanyang Jinniu Electric Zno (Zinc Oxide) Varistors Product Market Performance
 - 10.9.4 Nanyang Jinniu Electric Business Overview
 - 10.9.5 Nanyang Jinniu Electric Recent Developments

11 ZNO (ZINC OXIDE) VARISTORS MARKET FORECAST BY REGION

- 11.1 Global Zno (Zinc Oxide) Varistors Market Size Forecast
- 11.2 Global Zno (Zinc Oxide) Varistors Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Zno (Zinc Oxide) Varistors Market Size Forecast by Country
 - 11.2.3 Asia Pacific Zno (Zinc Oxide) Varistors Market Size Forecast by Region
 - 11.2.4 South America Zno (Zinc Oxide) Varistors Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Zno (Zinc Oxide) Varistors by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

- 12.1 Global Zno (Zinc Oxide) Varistors Market Forecast by Type (2026-2033)
 - 12.1.1 Global Forecasted Sales of Zno (Zinc Oxide) Varistors by Type (2026-2033)
 - 12.1.2 Global Zno (Zinc Oxide) Varistors Market Size Forecast by Type (2026-2033)
 - 12.1.3 Global Forecasted Price of Zno (Zinc Oxide) Varistors by Type (2026-2033)
- 12.2 Global Zno (Zinc Oxide) Varistors Market Forecast by Application (2026-2033)
 - 12.2.1 Global Zno (Zinc Oxide) Varistors Sales (K Units) Forecast by Application
 - 12.2.2 Global Zno (Zinc Oxide) Varistors Market Size (M USD) Forecast by Application

(2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Zno (Zinc Oxide) Varistors Market Size Comparison by Region (M USD)

Table 5. Global Zno (Zinc Oxide) Varistors Sales (K Units) by Manufacturers
(2020-2025)

Table 6. Global Zno (Zinc Oxide) Varistors Sales Market Share by Manufacturers
(2020-2025)

Table 7. Global Zno (Zinc Oxide) Varistors Revenue (M USD) by Manufacturers
(2020-2025)

Table 8. Global Zno (Zinc Oxide) Varistors Revenue Share by Manufacturers
(2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Zno
(Zinc Oxide) Varistors as of 2024)

Table 10. Global Market Zno (Zinc Oxide) Varistors Average Price (USD/Unit) of Key
Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Zno (Zinc Oxide) Varistors Manufacturers Market Concentration Ratio
(CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Zno (Zinc Oxide) Varistors Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 25. Global Zno (Zinc Oxide) Varistors Sales by Type (K Units)

Table 26. Global Zno (Zinc Oxide) Varistors Market Size by Type (M USD)

Table 27. Global Zno (Zinc Oxide) Varistors Sales (K Units) by Type (2020-2025)

Table 28. Global Zno (Zinc Oxide) Varistors Sales Market Share by Type (2020-2025)
Table 29. Global Zno (Zinc Oxide) Varistors Market Size (M USD) by Type (2020-2025)
Table 30. Global Zno (Zinc Oxide) Varistors Market Size Share by Type (2020-2025)
Table 31. Global Zno (Zinc Oxide) Varistors Price (USD/Unit) by Type (2020-2025)
Table 32. Global Zno (Zinc Oxide) Varistors Sales (K Units) by Application
Table 33. Global Zno (Zinc Oxide) Varistors Market Size by Application
Table 34. Global Zno (Zinc Oxide) Varistors Sales by Application (2020-2025) & (K Units)
Table 35. Global Zno (Zinc Oxide) Varistors Sales Market Share by Application (2020-2025)
Table 36. Global Zno (Zinc Oxide) Varistors Market Size by Application (2020-2025) & (M USD)
Table 37. Global Zno (Zinc Oxide) Varistors Market Share by Application (2020-2025)
Table 38. Global Zno (Zinc Oxide) Varistors Sales Growth Rate by Application (2020-2025)
Table 39. Global Zno (Zinc Oxide) Varistors Sales by Region (2020-2025) & (K Units)
Table 40. Global Zno (Zinc Oxide) Varistors Sales Market Share by Region (2020-2025)
Table 41. Global Zno (Zinc Oxide) Varistors Market Size by Region (2020-2025) & (M USD)
Table 42. Global Zno (Zinc Oxide) Varistors Market Size Market Share by Region (2020-2025)
Table 43. North America Zno (Zinc Oxide) Varistors Sales by Country (2020-2025) & (K Units)
Table 44. North America Zno (Zinc Oxide) Varistors Market Size by Country (2020-2025) & (M USD)
Table 45. Europe Zno (Zinc Oxide) Varistors Sales by Country (2020-2025) & (K Units)
Table 46. Europe Zno (Zinc Oxide) Varistors Market Size by Country (2020-2025) & (M USD)
Table 47. Asia Pacific Zno (Zinc Oxide) Varistors Sales by Region (2020-2025) & (K Units)
Table 48. Asia Pacific Zno (Zinc Oxide) Varistors Market Size by Region (2020-2025) & (M USD)
Table 49. South America Zno (Zinc Oxide) Varistors Sales by Country (2020-2025) & (K Units)
Table 50. South America Zno (Zinc Oxide) Varistors Market Size by Country (2020-2025) & (M USD)
Table 51. Middle East and Africa Zno (Zinc Oxide) Varistors Sales by Region (2020-2025) & (K Units)
Table 52. Middle East and Africa Zno (Zinc Oxide) Varistors Market Size by Region

(2020-2025) & (M USD)

Table 53. Global Zno (Zinc Oxide) Varistors Production (K Units) by Region(2020-2025)

Table 54. Global Zno (Zinc Oxide) Varistors Revenue (US\$ Million) by Region
(2020-2025)

Table 55. Global Zno (Zinc Oxide) Varistors Revenue Market Share by Region
(2020-2025)

Table 56. Global Zno (Zinc Oxide) Varistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 57. North America Zno (Zinc Oxide) Varistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. Europe Zno (Zinc Oxide) Varistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Japan Zno (Zinc Oxide) Varistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. China Zno (Zinc Oxide) Varistors Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. Hitachi Energy Basic Information

Table 62. Hitachi Energy Zno (Zinc Oxide) Varistors Product Overview

Table 63. Hitachi Energy Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. Hitachi Energy Business Overview

Table 65. Hitachi Energy SWOT Analysis

Table 66. Hitachi Energy Recent Developments

Table 67. Toshiba Basic Information

Table 68. Toshiba Zno (Zinc Oxide) Varistors Product Overview

Table 69. Toshiba Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. Toshiba Business Overview

Table 71. Toshiba SWOT Analysis

Table 72. Toshiba Recent Developments

Table 73. Meiden (Tridelta Meidensha) Basic Information

Table 74. Meiden (Tridelta Meidensha) Zno (Zinc Oxide) Varistors Product Overview

Table 75. Meiden (Tridelta Meidensha) Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 76. Meiden (Tridelta Meidensha) Business Overview

Table 77. Meiden (Tridelta Meidensha) SWOT Analysis

Table 78. Meiden (Tridelta Meidensha) Recent Developments

Table 79. Hubbell Basic Information

Table 80. Hubbell Zno (Zinc Oxide) Varistors Product Overview

Table 81. Hubbell Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 82. Hubbell Business Overview
Table 83. Hubbell Recent Developments
Table 84. Siemens Basic Information
Table 85. Siemens Zno (Zinc Oxide) Varistors Product Overview
Table 86. Siemens Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 87. Siemens Business Overview
Table 88. Siemens Recent Developments
Table 89. Lamco Industries Basic Information
Table 90. Lamco Industries Zno (Zinc Oxide) Varistors Product Overview
Table 91. Lamco Industries Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 92. Lamco Industries Business Overview
Table 93. Lamco Industries Recent Developments
Table 94. China XD Group Basic Information
Table 95. China XD Group Zno (Zinc Oxide) Varistors Product Overview
Table 96. China XD Group Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. China XD Group Business Overview
Table 98. China XD Group Recent Developments
Table 99. HENGDA ELECTRIC Basic Information
Table 100. HENGDA ELECTRIC Zno (Zinc Oxide) Varistors Product Overview
Table 101. HENGDA ELECTRIC Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 102. HENGDA ELECTRIC Business Overview
Table 103. HENGDA ELECTRIC Recent Developments
Table 104. Nanyang Jinniu Electric Basic Information
Table 105. Nanyang Jinniu Electric Zno (Zinc Oxide) Varistors Product Overview
Table 106. Nanyang Jinniu Electric Zno (Zinc Oxide) Varistors Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 107. Nanyang Jinniu Electric Business Overview
Table 108. Nanyang Jinniu Electric Recent Developments
Table 109. Global Zno (Zinc Oxide) Varistors Sales Forecast by Region (2026-2033) & (K Units)
Table 110. Global Zno (Zinc Oxide) Varistors Market Size Forecast by Region (2026-2033) & (M USD)
Table 111. North America Zno (Zinc Oxide) Varistors Sales Forecast by Country

(2026-2033) & (K Units)

Table 112. North America Zno (Zinc Oxide) Varistors Market Size Forecast by Country (2026-2033) & (M USD)

Table 113. Europe Zno (Zinc Oxide) Varistors Sales Forecast by Country (2026-2033) & (K Units)

Table 114. Europe Zno (Zinc Oxide) Varistors Market Size Forecast by Country (2026-2033) & (M USD)

Table 115. Asia Pacific Zno (Zinc Oxide) Varistors Sales Forecast by Region (2026-2033) & (K Units)

Table 116. Asia Pacific Zno (Zinc Oxide) Varistors Market Size Forecast by Region (2026-2033) & (M USD)

Table 117. South America Zno (Zinc Oxide) Varistors Sales Forecast by Country (2026-2033) & (K Units)

Table 118. South America Zno (Zinc Oxide) Varistors Market Size Forecast by Country (2026-2033) & (M USD)

Table 119. Middle East and Africa Zno (Zinc Oxide) Varistors Sales Forecast by Country (2026-2033) & (Units)

Table 120. Middle East and Africa Zno (Zinc Oxide) Varistors Market Size Forecast by Country (2026-2033) & (M USD)

Table 121. Global Zno (Zinc Oxide) Varistors Sales Forecast by Type (2026-2033) & (K Units)

Table 122. Global Zno (Zinc Oxide) Varistors Market Size Forecast by Type (2026-2033) & (M USD)

Table 123. Global Zno (Zinc Oxide) Varistors Price Forecast by Type (2026-2033) & (USD/Unit)

Table 124. Global Zno (Zinc Oxide) Varistors Sales (K Units) Forecast by Application (2026-2033)

Table 125. Global Zno (Zinc Oxide) Varistors Market Size Forecast by Application (2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Zno (Zinc Oxide) Varistors
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Zno (Zinc Oxide) Varistors Market Size (M USD), 2024-2033
- Figure 5. Global Zno (Zinc Oxide) Varistors Market Size (M USD) (2020-2033)
- Figure 6. Global Zno (Zinc Oxide) Varistors Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Zno (Zinc Oxide) Varistors Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Zno (Zinc Oxide) Varistors Product Life Cycle
- Figure 13. Zno (Zinc Oxide) Varistors Sales Share by Manufacturers in 2024
- Figure 14. Global Zno (Zinc Oxide) Varistors Revenue Share by Manufacturers in 2024
- Figure 15. Zno (Zinc Oxide) Varistors Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Zno (Zinc Oxide) Varistors Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Zno (Zinc Oxide) Varistors Revenue in 2024
- Figure 18. Industry Chain Map of Zno (Zinc Oxide) Varistors
- Figure 19. Global Zno (Zinc Oxide) Varistors Market PEST Analysis
- Figure 20. Global Zno (Zinc Oxide) Varistors Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Zno (Zinc Oxide) Varistors Market Share by Type
- Figure 27. Sales Market Share of Zno (Zinc Oxide) Varistors by Type (2020-2025)
- Figure 28. Sales Market Share of Zno (Zinc Oxide) Varistors by Type in 2024
- Figure 29. Market Size Share of Zno (Zinc Oxide) Varistors by Type (2020-2025)
- Figure 30. Market Size Share of Zno (Zinc Oxide) Varistors by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Zno (Zinc Oxide) Varistors Market Share by Application

Figure 33. Global Zno (Zinc Oxide) Varistors Sales Market Share by Application (2020-2025)

Figure 34. Global Zno (Zinc Oxide) Varistors Sales Market Share by Application in 2024

Figure 35. Global Zno (Zinc Oxide) Varistors Market Share by Application (2020-2025)

Figure 36. Global Zno (Zinc Oxide) Varistors Market Share by Application in 2024

Figure 37. Global Zno (Zinc Oxide) Varistors Sales Growth Rate by Application (2020-2025)

Figure 38. Global Zno (Zinc Oxide) Varistors Sales Market Share by Region (2020-2025)

Figure 39. Global Zno (Zinc Oxide) Varistors Market Size Market Share by Region (2020-2025)

Figure 40. North America Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Zno (Zinc Oxide) Varistors Sales Market Share by Country in 2024

Figure 43. North America Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Zno (Zinc Oxide) Varistors Market Size Market Share by Country in 2024

Figure 45. U.S. Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Zno (Zinc Oxide) Varistors Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Zno (Zinc Oxide) Varistors Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Zno (Zinc Oxide) Varistors Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Zno (Zinc Oxide) Varistors Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Zno (Zinc Oxide) Varistors Sales Market Share by Country in 2024

Figure 53. Europe Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Zno (Zinc Oxide) Varistors Market Size Market Share by Country in

2024

Figure 55. Germany Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Zno (Zinc Oxide) Varistors Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Zno (Zinc Oxide) Varistors Sales Market Share by Region in 2024

Figure 67. Asia Pacific Zno (Zinc Oxide) Varistors Market Size Market Share by Region in 2024

Figure 68. China Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 73. South Korea Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K

Units)

Figure 75. India Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Zno (Zinc Oxide) Varistors Sales and Growth Rate (K Units)

Figure 79. South America Zno (Zinc Oxide) Varistors Sales Market Share by Country in 2024

Figure 80. South America Zno (Zinc Oxide) Varistors Market Size and Growth Rate (M USD)

Figure 81. South America Zno (Zinc Oxide) Varistors Market Size Market Share by Country in 2024

Figure 82. Brazil Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Zno (Zinc Oxide) Varistors Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Zno (Zinc Oxide) Varistors Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Zno (Zinc Oxide) Varistors Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Zno (Zinc Oxide) Varistors Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K

Units)

Figure 95. UAE Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Zno (Zinc Oxide) Varistors Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Zno (Zinc Oxide) Varistors Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Zno (Zinc Oxide) Varistors Production Market Share by Region (2020-2025)

Figure 103. North America Zno (Zinc Oxide) Varistors Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Zno (Zinc Oxide) Varistors Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Zno (Zinc Oxide) Varistors Production (K Units) Growth Rate (2020-2025)

Figure 106. China Zno (Zinc Oxide) Varistors Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Zno (Zinc Oxide) Varistors Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Zno (Zinc Oxide) Varistors Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Zno (Zinc Oxide) Varistors Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Zno (Zinc Oxide) Varistors Market Share Forecast by Type (2026-2033)

Figure 111. Global Zno (Zinc Oxide) Varistors Sales Forecast by Application (2026-2033)

Figure 112. Global Zno (Zinc Oxide) Varistors Market Share Forecast by Application (2026-2033)

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