

Global Thermoelectric Material Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G23937B0523EN.html>

Date: January 2024

Pages: 119

Price: US\$ 3,480.00 (Single User License)

ID: G23937B0523EN

Abstracts

According to our (Global Info Research) latest study, the global Thermoelectric Material market size was valued at USD 42 million in 2023 and is forecast to a readjusted size of USD 59 million by 2030 with a CAGR of 5.0% during review period.

Thermoelectric materials show the thermoelectric effect in a strong or convenient form.

The thermoelectric effect refers to phenomena by which either a temperature difference creates an electric potential or an electric potential creates a temperature difference. These phenomena are known more specifically as the Seebeck effect (converting temperature to current), Peltier effect (converting current to temperature), and Thomson effect (conductor heating/cooling). While all materials have a nonzero thermoelectric effect, in most materials it is too small to be useful. However, low-cost materials that have a sufficiently strong thermoelectric effect (and other required properties) could be used in applications including power generation and refrigeration. A commonly used thermoelectric material in such applications is bismuth telluride.

Thermoelectric materials are used in thermoelectric systems for cooling or heating in niche applications, and are being studied as a way to regenerate electricity from waste heat.

Global Thermoelectric Material key players include Ferrotec, Laird, KELK, etc. Global top three manufacturers hold a share over 55%.

China is the largest market, with a share over 40%, followed by Japan and North America, both have a share over 35 percent.

In terms of product, Bi-Te is the largest segment, with a share over 85%. And in terms of application, the largest application is Automotive, followed by Electronics, Biomedical, etc.

The Global Info Research report includes an overview of the development of the Thermoelectric Material industry chain, the market status of Automotive (Bi-Te, Pb-Te), Electronics (Bi-Te, Pb-Te), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Thermoelectric Material.

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

Key Features:

The report presents comprehensive understanding of the Thermoelectric 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 Thermoelectric 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 (MT), revenue generated, and market share of different by Type (e.g., Bi-Te, Pb-Te).

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 Thermoelectric Material market.

Regional Analysis: The report involves examining the Thermoelectric 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 Thermoelectric 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 Thermoelectric Material:

Company Analysis: Report covers individual Thermoelectric 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 Thermoelectric Material. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Automotive, Electronics).

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

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

Thermoelectric 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

Bi-Te

Pb-Te

Other Materials

Market segment by Application

Automotive

Electronics

Biomedical

Other Industry

Major players covered

Ferrotec

Laird

KELK

Thermonamic Electronics

Marlow

RMT

EVERREDtronics

Crystal

Hi-Z

Tellurex

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

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

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

Chapter 4, the Thermoelectric 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 Thermoelectric 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 Thermoelectric Material.

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

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