

Global Thermoelectric Material Market Size, Manufacturers, Growth Analysis Industry Forecast to 2030

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Abstracts

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.

According to APO Research, The global Thermoelectric Material market is projected to grow from US\$ million in 2024 to US\$ million by 2030, at a Compound Annual Growth Rate (CAGR) of % during the forecast period.

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.

This report presents an overview of global market for Thermoelectric Material, sales, revenue and price. Analyses of the global market trends, with historic market revenue or sales data for 2019 - 2023, estimates for 2024, and projections of CAGR through 2030.

This report researches the key producers of Thermoelectric Material, also provides the sales of main regions and countries. Of the upcoming market potential for Thermoelectric Material, and key regions or countries of focus to forecast this market into various segments and sub-segments. Country specific data and market value analysis for the U.S., Canada, Mexico, Brazil, China, Japan, South Korea, Southeast Asia, India, Germany, the U.K., Italy, Middle East, Africa, and Other Countries.

This report focuses on the Thermoelectric Material sales, revenue, market share and industry ranking of main manufacturers, data from 2019 to 2024. Identification of the major stakeholders in the global Thermoelectric Material market, and analysis of their competitive landscape and market positioning based on recent developments and segmental revenues. This report will help stakeholders to understand the competitive landscape and gain more insights and position their businesses and market strategies in a better way.

This report analyzes the segments data by Type and by Application, sales, revenue, and price, from 2019 to 2030. Evaluation and forecast the market size for Thermoelectric Material sales, projected growth trends, production technology, application and end-user industry.

Descriptive company profiles of the major global players, including Ferrotec, Laird, KELK, Thermonamic Electronics, Marlow, RMT, EVERREDtronics, Crystal and Hi-Z, etc.

Thermoelectric Material segment by Company

Ferrotec

Laird

KELK

Thermonamic Electronics

Marlow

RMT

EVERREDtronics

Crystal

Hi-Z

Tellurex

Thermoelectric Material segment by Type

Bi-Te

Pb-Te

Other Materials

Thermoelectric Material segment by Application

Automotive

Electronics

Biomedical

Other Industry

Thermoelectric Material segment by Region

North America

U.S.

Canada

Europe

Germany

France

U.K.

Italy

Russia

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Indonesia

Thailand

Malaysia

Latin America

Mexico

Brazil

Argentina

Middle East & Africa

Turkey

Saudi Arabia

UAE

Study Objectives

1. To analyze and research the global Thermoelectric Material status and future forecast, involving, sales, revenue, growth rate (CAGR), market share, historical and forecast.
2. To present the key manufacturers, sales, revenue, market share, and Recent Developments.
3. To split the breakdown data by regions, type, manufacturers, and Application.
4. To analyze the global and key regions Thermoelectric Material market potential and advantage, opportunity and challenge, restraints, and risks.
5. To identify Thermoelectric Material significant trends, drivers, influence factors in global and regions.
6. To analyze Thermoelectric Material competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries

and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Thermoelectric Material market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.

2. This report will help stakeholders to understand the global industry status and trends of Thermoelectric Material and provides them with information on key market drivers, restraints, challenges, and opportunities.

3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in sales and value), competitor ecosystem, new product development, expansion, and acquisition.

4. This report stays updated with novel technology integration, features, and the latest developments in the market.

5. This report helps stakeholders to gain insights into which regions to target globally.

6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Thermoelectric Material.

7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Provides an overview of the Thermoelectric Material market, including product definition, global market growth prospects, sales value, sales volume, and average price forecasts (2019-2030).

Chapter 2: Analysis key trends, drivers, challenges, and opportunities within the global Thermoelectric Material industry.

Chapter 3: Detailed analysis of Thermoelectric Material manufacturers competitive landscape, price, sales and revenue market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 5: Provides the analysis of various market segments by 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 6: Sales and value of Thermoelectric Material in regional level. It provides a quantitative analysis of the market size and development potential of each region and introduces the market development, future development prospects, market space, and market size of each country in the world.

Chapter 7: Sales and value of Thermoelectric Material in country level. It provides sigmate data by type, and by application for each country/region.

Chapter 8: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product sales, revenue, price, gross margin, product introduction, recent development, etc.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Concluding Insights.

Chapter 10: Concluding Insights.

Contents

1 MARKET OVERVIEW

- 1.1 Product Definition
- 1.2 Global Market Growth Prospects
 - 1.2.1 Global Thermoelectric Material Sales Value (2019-2030)
 - 1.2.2 Global Thermoelectric Material Sales Volume (2019-2030)
 - 1.2.3 Global Thermoelectric Material Sales Average Price (2019-2030)
- 1.3 Assumptions and Limitations
- 1.4 Study Goals and Objectives

2 THERMOELECTRIC MATERIAL MARKET DYNAMICS

- 2.1 Thermoelectric Material Industry Trends
- 2.2 Thermoelectric Material Industry Drivers
- 2.3 Thermoelectric Material Industry Opportunities and Challenges
- 2.4 Thermoelectric Material Industry Restraints

3 THERMOELECTRIC MATERIAL MARKET BY COMPANY

- 3.1 Global Thermoelectric Material Company Revenue Ranking in 2023
- 3.2 Global Thermoelectric Material Revenue by Company (2019-2024)
- 3.3 Global Thermoelectric Material Sales Volume by Company (2019-2024)
- 3.4 Global Thermoelectric Material Average Price by Company (2019-2024)
- 3.5 Global Thermoelectric Material Company Ranking, 2022 VS 2023 VS 2024
- 3.6 Global Thermoelectric Material Company Manufacturing Base & Headquarters
- 3.7 Global Thermoelectric Material Company, Product Type & Application
- 3.8 Global Thermoelectric Material Company Commercialization Time
- 3.9 Market Competitive Analysis
 - 3.9.1 Global Thermoelectric Material Market CR5 and HHI
 - 3.9.2 Global Top 5 and 10 Company Market Share by Revenue in 2023
 - 3.9.3 2023 Thermoelectric Material Tier 1, Tier 2, and Tier
- 3.10 Mergers & Acquisitions, Expansion

4 THERMOELECTRIC MATERIAL MARKET BY TYPE

- 4.1 Thermoelectric Material Type Introduction
 - 4.1.1 Bi-Te

- 4.1.2 Pb-Te
- 4.1.3 Other Materials
- 4.2 Global Thermoelectric Material Sales Volume by Type
 - 4.2.1 Global Thermoelectric Material Sales Volume by Type (2019 VS 2023 VS 2030)
 - 4.2.2 Global Thermoelectric Material Sales Volume by Type (2019-2030)
 - 4.2.3 Global Thermoelectric Material Sales Volume Share by Type (2019-2030)
- 4.3 Global Thermoelectric Material Sales Value by Type
 - 4.3.1 Global Thermoelectric Material Sales Value by Type (2019 VS 2023 VS 2030)
 - 4.3.2 Global Thermoelectric Material Sales Value by Type (2019-2030)
 - 4.3.3 Global Thermoelectric Material Sales Value Share by Type (2019-2030)

5 THERMOELECTRIC MATERIAL MARKET BY APPLICATION

- 5.1 Thermoelectric Material Application Introduction
 - 5.1.1 Automotive
 - 5.1.2 Electronics
 - 5.1.3 Biomedical
 - 5.1.4 Other Industry
- 5.2 Global Thermoelectric Material Sales Volume by Application
 - 5.2.1 Global Thermoelectric Material Sales Volume by Application (2019 VS 2023 VS 2030)
 - 5.2.2 Global Thermoelectric Material Sales Volume by Application (2019-2030)
 - 5.2.3 Global Thermoelectric Material Sales Volume Share by Application (2019-2030)
- 5.3 Global Thermoelectric Material Sales Value by Application
 - 5.3.1 Global Thermoelectric Material Sales Value by Application (2019 VS 2023 VS 2030)
 - 5.3.2 Global Thermoelectric Material Sales Value by Application (2019-2030)
 - 5.3.3 Global Thermoelectric Material Sales Value Share by Application (2019-2030)

6 THERMOELECTRIC MATERIAL MARKET BY REGION

- 6.1 Global Thermoelectric Material Sales by Region: 2019 VS 2023 VS 2030
- 6.2 Global Thermoelectric Material Sales by Region (2019-2030)
 - 6.2.1 Global Thermoelectric Material Sales by Region: 2019-2024
 - 6.2.2 Global Thermoelectric Material Sales by Region (2025-2030)
- 6.3 Global Thermoelectric Material Sales Value by Region: 2019 VS 2023 VS 2030
- 6.4 Global Thermoelectric Material Sales Value by Region (2019-2030)
 - 6.4.1 Global Thermoelectric Material Sales Value by Region: 2019-2024
 - 6.4.2 Global Thermoelectric Material Sales Value by Region (2025-2030)

6.5 Global Thermoelectric Material Market Price Analysis by Region (2019-2024)

6.6 North America

6.6.1 North America Thermoelectric Material Sales Value (2019-2030)

6.6.2 North America Thermoelectric Material Sales Value Share by Country, 2023 VS 2030

6.7 Europe

6.7.1 Europe Thermoelectric Material Sales Value (2019-2030)

6.7.2 Europe Thermoelectric Material Sales Value Share by Country, 2023 VS 2030

6.8 Asia-Pacific

6.8.1 Asia-Pacific Thermoelectric Material Sales Value (2019-2030)

6.8.2 Asia-Pacific Thermoelectric Material Sales Value Share by Country, 2023 VS 2030

6.9 Latin America

6.9.1 Latin America Thermoelectric Material Sales Value (2019-2030)

6.9.2 Latin America Thermoelectric Material Sales Value Share by Country, 2023 VS 2030

6.10 Middle East & Africa

6.10.1 Middle East & Africa Thermoelectric Material Sales Value (2019-2030)

6.10.2 Middle East & Africa Thermoelectric Material Sales Value Share by Country, 2023 VS 2030

7 THERMOELECTRIC MATERIAL MARKET BY COUNTRY

7.1 Global Thermoelectric Material Sales by Country: 2019 VS 2023 VS 2030

7.2 Global Thermoelectric Material Sales Value by Country: 2019 VS 2023 VS 2030

7.3 Global Thermoelectric Material Sales by Country (2019-2030)

7.3.1 Global Thermoelectric Material Sales by Country (2019-2024)

7.3.2 Global Thermoelectric Material Sales by Country (2025-2030)

7.4 Global Thermoelectric Material Sales Value by Country (2019-2030)

7.4.1 Global Thermoelectric Material Sales Value by Country (2019-2024)

7.4.2 Global Thermoelectric Material Sales Value by Country (2025-2030)

7.5 USA

7.5.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.5.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.5.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030

7.6 Canada

7.6.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.6.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.6.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030

7.7 Germany

7.7.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.7.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.7.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030

7.8 France

7.8.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.8.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.8.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030

7.9 U.K.

7.9.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.9.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.9.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030

7.10 Italy

7.10.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.10.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.10.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS

2030

7.11 Netherlands

7.11.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.11.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.11.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS

2030

7.12 Nordic Countries

7.12.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.12.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.12.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS

2030

7.13 China

7.13.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.13.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.13.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS

2030

7.14 Japan

7.14.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

7.14.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030

7.14.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS

2030

7.15 South Korea

7.15.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)

- 7.15.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
- 7.15.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.16 Southeast Asia
 - 7.16.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
 - 7.16.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
 - 7.16.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.17 India
 - 7.17.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
 - 7.17.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
 - 7.17.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.18 Australia
 - 7.18.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
 - 7.18.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
 - 7.18.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.19 Mexico
 - 7.19.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
 - 7.19.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
 - 7.19.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.20 Brazil
 - 7.20.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
 - 7.20.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
 - 7.20.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.21 Turkey
 - 7.21.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
 - 7.21.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
 - 7.21.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.22 Saudi Arabia
 - 7.22.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
 - 7.22.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
 - 7.22.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030
- 7.23 UAE

- 7.23.1 Global Thermoelectric Material Sales Value Growth Rate (2019-2030)
- 7.23.2 Global Thermoelectric Material Sales Value Share by Type, 2023 VS 2030
- 7.23.3 Global Thermoelectric Material Sales Value Share by Application, 2023 VS 2030

8 COMPANY PROFILES

8.1 Ferrotec

- 8.1.1 Ferrotec Company Information
- 8.1.2 Ferrotec Business Overview
- 8.1.3 Ferrotec Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
- 8.1.4 Ferrotec Thermoelectric Material Product Portfolio
- 8.1.5 Ferrotec Recent Developments

8.2 Laird

- 8.2.1 Laird Company Information
- 8.2.2 Laird Business Overview
- 8.2.3 Laird Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
- 8.2.4 Laird Thermoelectric Material Product Portfolio
- 8.2.5 Laird Recent Developments

8.3 KELK

- 8.3.1 KELK Company Information
- 8.3.2 KELK Business Overview
- 8.3.3 KELK Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
- 8.3.4 KELK Thermoelectric Material Product Portfolio
- 8.3.5 KELK Recent Developments

8.4 Thermonamic Electronics

- 8.4.1 Thermonamic Electronics Company Information
- 8.4.2 Thermonamic Electronics Business Overview
- 8.4.3 Thermonamic Electronics Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
- 8.4.4 Thermonamic Electronics Thermoelectric Material Product Portfolio
- 8.4.5 Thermonamic Electronics Recent Developments

8.5 Marlow

- 8.5.1 Marlow Company Information
- 8.5.2 Marlow Business Overview
- 8.5.3 Marlow Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
- 8.5.4 Marlow Thermoelectric Material Product Portfolio
- 8.5.5 Marlow Recent Developments

8.6 RMT

- 8.6.1 RMT Company Information
- 8.6.2 RMT Business Overview
- 8.6.3 RMT Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
- 8.6.4 RMT Thermoelectric Material Product Portfolio
- 8.6.5 RMT Recent Developments
- 8.7 EVERREDtronics
 - 8.7.1 EVERREDtronics Company Information
 - 8.7.2 EVERREDtronics Business Overview
 - 8.7.3 EVERREDtronics Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
 - 8.7.4 EVERREDtronics Thermoelectric Material Product Portfolio
 - 8.7.5 EVERREDtronics Recent Developments
- 8.8 Crystal
 - 8.8.1 Crystal Company Information
 - 8.8.2 Crystal Business Overview
 - 8.8.3 Crystal Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
 - 8.8.4 Crystal Thermoelectric Material Product Portfolio
 - 8.8.5 Crystal Recent Developments
- 8.9 Hi-Z
 - 8.9.1 Hi-Z Company Information
 - 8.9.2 Hi-Z Business Overview
 - 8.9.3 Hi-Z Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
 - 8.9.4 Hi-Z Thermoelectric Material Product Portfolio
 - 8.9.5 Hi-Z Recent Developments
- 8.10 Tellurex
 - 8.10.1 Tellurex Company Information
 - 8.10.2 Tellurex Business Overview
 - 8.10.3 Tellurex Thermoelectric Material Sales, Value and Gross Margin (2019-2024)
 - 8.10.4 Tellurex Thermoelectric Material Product Portfolio
 - 8.10.5 Tellurex Recent Developments

9 VALUE CHAIN AND SALES CHANNELS ANALYSIS

- 9.1 Thermoelectric Material Value Chain Analysis
 - 9.1.1 Thermoelectric Material Key Raw Materials
 - 9.1.2 Raw Materials Key Suppliers
 - 9.1.3 Manufacturing Cost Structure
 - 9.1.4 Thermoelectric Material Sales Mode & Process
- 9.2 Thermoelectric Material Sales Channels Analysis

- 9.2.1 Direct Comparison with Distribution Share
- 9.2.2 Thermoelectric Material Distributors
- 9.2.3 Thermoelectric Material Customers

10 CONCLUDING INSIGHTS

11 APPENDIX

- 11.1 Reasons for Doing This Study
- 11.2 Research Methodology
- 11.3 Research Process
- 11.4 Authors List of This Report
- 11.5 Data Source
 - 11.5.1 Secondary Sources
 - 11.5.2 Primary Sources
- 11.6 Disclaimer

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