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Global Thermal Conductive Phase Change Materials Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Thermal Conductive Phase Change Materials market size was valued at US$ 106 million in 2024 and is forecast to a readjusted size of USD 160 million by 2031 with a CAGR of 6.2% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Thermal Energy Storage Phase Change Materials (PCM) are a special type of material that can absorb or release a large amount of thermal energy during phase change (such as conversion between solid and liquid). This makes these materials have important applications in energy management and thermal storage.

This report is a detailed and comprehensive analysis for global Thermal Conductive Phase Change Materials market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Thermal Conductive Phase Change Materials market size and forecasts, in

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consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2020-2031

Global Thermal Conductive Phase Change Materials market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2020-2031

Global Thermal Conductive Phase Change Materials market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2020-2031

Global Thermal Conductive Phase Change Materials market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Thermal Conductive Phase Change Materials
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Thermal Conductive Phase Change Materials market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Stanford Advanced Materials, Laird, BASF, Honeywell, Phase Change Energy Solutions, Henkel, Rubitherm Technologies, Chemours Company, PCM Energy, Entropy Solutions, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Thermal Conductive Phase Change Materials market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

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Inorganic Phase Change Materials

Organic Phase Change Materials

Composite Phase Change Materials

Biobased Phase Change Materials

Market segment by Application

Semiconductor Industry

Lighting Industry

Communication Industry

Consumer Electronics Industry

Others

Major players covered

Stanford Advanced Materials

Laird

BASF

Honeywell

Phase Change Energy Solutions

Henkel

Rubitherm Technologies

Chemours Company

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PCM Energy

Entropy Solutions

HALA

Shielding Solutions

Outlast Technologies

JONES

Croda

Tianjin Brothers Technology

T-Global Technology

Ziitek Electronic Materials & Technology

UNION TENDA TECHNOLOGY

Sheen Electronic Honor Certificate

KY chemical

GuangDong Suqun New Material

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)

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The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Thermal Conductive Phase Change Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Thermal Conductive Phase Change Materials, with price, sales quantity, revenue, and global market share of Thermal Conductive Phase Change Materials from 2020 to 2025.

Chapter 3, the Thermal Conductive Phase Change Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Thermal Conductive Phase Change Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

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 2020 to 2025.and Thermal Conductive Phase Change Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Thermal Conductive Phase Change Materials.

Chapter 14 and 15, to describe Thermal Conductive Phase Change Materials sales channel, distributors, customers, research findings and conclusion.

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