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# Global Phase Change Materials (PCM) for Cooling Market Research Report 2026(Status and Outlook)

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## Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Phase Change Materials (PCM) for Cooling competitive dynamics, regional economic interdependencies, and supply chain reconfigurations.Phase Change Materials (PCM) for Cooling are substances that absorb, store, and release large amounts of latent heat during phase transitions?typically from solid to liquid and vice versa?at specific temperatures. These materials are engineered to maintain a near-constant temperature while absorbing heat, making them ideal for thermal energy storage and temperature regulation applications. PCMs used for cooling can be organic (like paraffins or fatty acids), inorganic (such as salt hydrates), or eutectic mixtures, each offering varying thermal conductivity, stability, and energy storage capacity. They are widely utilized in passive cooling systems, cold chain logistics, HVAC systems, building insulation, electronics thermal management, and personal cooling products. Key characteristics include phase transition temperature range (commonly between 0?C and 30?C for cooling applications), high latent heat capacity (typically 150?250?kJ/kg), non-toxicity, and long cycle stability.Phase Change Materials (PCMs) for cooling applications typically feature a phase change temperature range between -20?C and +30?C, tailored to use cases such as vaccine transport, HVAC systems, or personal cooling. These materials possess a latent heat of fusion between 150 and 250?kJ/kg, enabling efficient thermal energy storage during melting and solidification. They generally exhibit thermal conductivity between 0.2 and 0.6?W/m?K, density ranging from 800 to 1,500?kg/m?, and specific heat capacity of 1.8 to 2.5?kJ/kg?K. Most PCMs maintain stable performance over 1,000+ thermal cycles, with a melting/freezing point hysteresis of less than 2??C, ensuring predictable energy release. Volume expansion during phase transition typically ranges from 5% to 15%, requiring compatible encapsulation. PCMs can be formulated as salt hydrates, paraffin

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waxes, fatty acids, or bio-based compounds, and are offered in bulk, macroencapsulated (e.g., pouches, panels), or microencapsulated (e.g., textile coatings)forms, depending on application requirements.

The global Phase Change Materials (PCM) for Cooling market size was estimated at USD 748.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 11.30% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Phase Change Materials (PCM) for Cooling 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 Phase Change Materials (PCM) for Cooling 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 Phase Change Materials (PCM) for Cooling market.

**Global Phase Change Materials (PCM) for Cooling 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

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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**

Rubitherm
BASF
Outlast Technologies
Climator
PCM Products
Phase Change Energy Solutions
EMCOOL
Croda International
Entropy Solutions
Pluss Advanced Technologies
Cold Chain Technologies
Cristopia Energy Systems
RGEES
Va-Q-tec
Honeywell
GreenTEG
Thermavance Technologies

**Market Segmentation (by Type)**

Organic PCMs
Inorganic PCMs

**Market Segmentation (by Application)**

Cold Chain Logistics
HVAC Systems
Battery Cooling
Others

**Geographic Segmentation**

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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 Phase Change Materials (PCM) for Cooling Market
Overview of the regional outlook of the Phase Change Materials (PCM) for Cooling Market:

**Customization of the Report**

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**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 Phase Change Materials (PCM) for Cooling Market and its likely evolution in the short to

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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 Phase Change Materials (PCM) for Cooling, 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.

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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

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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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