

Global Advanced Phase Change Materials (PCM) Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Advanced Phase Change Materials (PCM) market size was valued at USD 1513.7 million in 2023 and is forecast to a readjusted size of USD 3220.4 million by 2030 with a CAGR of 11.4% during review period.

Phase change materials (PCMs) are substances with a high enthalpy of fusion, also known as latent heat, meaning they can store large quantities of heat energy as they change phase. When melting, they absorb heat and maintain the temperature of the environment at a certain value until completely molten. When the temperature of the environment falls below the crystallisation temperature, the PCM will start to solidify, releasing large quantities of heat and maintaining the temperature until completely solid.

Latent heat storage can be achieved through liquid→solid, solid→liquid, solid→gas and liquid→gas phase changes. However, only solid→liquid and liquid→solid phase changes are practical for PCMs. Although liquid→gas transitions have a higher heat of transformation than solid→liquid transitions, liquid→gas phase changes are impractical for thermal storage because large volumes or high pressures are required to store the materials in their gas phase. Solid→solid phase changes are typically very slow and have a relatively low heat of transformation.

Phase change materials are products that release or absorb heat when they change from one phase to another (usually from solid to liquid or vice versa). These materials store thermal energy in the form of latent heat, which is released when they freeze or crystallize and absorbed when they melt at their respective melting/freezing temperature points. Hence, they are used in a broad range of applications that require thermal

control and management.

Based on the technology of the material used, advanced PCM are broadly categorized as inorganic PCM, organic PCM and Bio-based PCM.

Currently, The industry concentration is not high, the technical barriers and financial barriers of Advanced Phase Change Materials (PCM) are also not high. The companies in the world that produce Advanced Phase Change Materials (PCM) mainly concentrate in China, India, Southeast Asia, Europe, Japan and USA. Raw materials are also concentrated in these regions. In particular, as the market leader in Advanced Phase Change Materials (PCM), BASF take the global market share of about 9%, other key manufacturers include Honeywell, Cryopak Entropy Solutions Inc., Climator Sweden AB, Phase Change Energy Solutions, Outlast Technologies, Dow Building Solutions, Chemours Company, PCM Energy Ltd and Rubitherm.

The Global Info Research report includes an overview of the development of the Advanced Phase Change Materials (PCM) industry chain, the market status of Building & Construction (Organic, Inorganic), Refrigeration (Organic, Inorganic), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Advanced Phase Change Materials (PCM).

Regionally, the report analyzes the Advanced Phase Change Materials (PCM) 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 Advanced Phase Change Materials (PCM) market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Advanced Phase Change Materials (PCM) 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 Advanced Phase Change Materials (PCM) industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size,

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including the sales quantity (K MT), revenue generated, and market share of different by Type (e.g., Organic, Inorganic).

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 Advanced Phase Change Materials (PCM) market.

Regional Analysis: The report involves examining the Advanced Phase Change Materials (PCM) 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 Advanced Phase Change Materials (PCM) market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Advanced Phase Change Materials (PCM):

Company Analysis: Report covers individual Advanced Phase Change Materials (PCM) 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 Advanced Phase Change Materials (PCM) This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Building & Construction, Refrigeration).

Technology Analysis: Report covers specific technologies relevant to Advanced Phase Change Materials (PCM). It assesses the current state, advancements, and potential future developments in Advanced Phase Change Materials (PCM) areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Advanced Phase Change Materials (PCM) 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

Advanced Phase Change Materials (PCM) 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

Organic

Inorganic

Bio-Based

Market segment by Application

Building & Construction

Refrigeration

Consumer Goods

Others

Major players covered

BASF

Honeywell

Cryopak

Entropy Solutions Inc.

Climator Sweden AB

Phase Change Energy Solutions

Outlast Technologies

Dow Building Solutions

Chemours Company

PCM Energy Ltd

Rubitherm Technologies GmbH

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 Advanced Phase Change Materials (PCM) product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Advanced Phase Change Materials (PCM), with price, sales, revenue and global market share of Advanced Phase Change Materials (PCM) from 2019 to 2024.

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

Chapter 4, the Advanced Phase Change Materials (PCM) 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 Advanced Phase Change Materials (PCM) 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 Advanced Phase Change Materials (PCM).

Chapter 14 and 15, to describe Advanced Phase Change Materials (PCM) sales channel, distributors, customers, research findings and conclusion.

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