

Global Phase Change Material Coolant Market Growth 2026-2032

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Abstracts

The global Phase Change Material Coolant market size is predicted to grow from US\$ million in 2025 to US\$ million in 2032; it is expected to grow at a CAGR of % from 2026 to 2032.

Phase change material coolant, as the name implies, refers to a liquid that uses phase change materials (PCM) as a cooling medium. Phase change materials are substances that can undergo phase changes (such as from solid to liquid, or from liquid to solid) at a specific temperature and absorb or release a large amount of latent heat in the process. This unique property gives phase change materials a significant advantage in the field of coolants.

During the phase change process, the temperature of the phase change material remains almost unchanged, but it can absorb or release a large amount of heat. This property is called latent heat. When the phase change material is used as a coolant, it can maintain a stable temperature while absorbing heat, thereby effectively controlling the temperature of the object being cooled. Phase change material coolants are widely used in fields that require efficient thermal management, such as new energy vehicles, data centers, and electronic equipment heat dissipation.

The development status and dynamics of the phase change material coolant market can be summarized from the following aspects:

First, with the acceleration of industrialization and the improvement of global requirements for energy conservation and environmental protection, the phase change material coolant market has shown a growth trend. Phase change materials are widely used in the field of coolants due to their unique properties, such as the ability to change

the state of matter and absorb or release a large amount of latent heat without changing the temperature, to improve cooling efficiency and energy utilization. Phase change material coolants are mainly used in the fields of automobiles, machinery, electricity, chemicals, etc., especially in high energy consumption and high heat dissipation demand occasions such as new energy vehicles and data centers. These fields have higher and higher performance requirements for coolants, which has promoted the development of the phase change material coolant market.

In addition, technological innovation is a key factor in promoting the development of the phase change material coolant market. Enterprises continue to develop new phase change materials, optimize coolant formulas, and improve cooling efficiency and service life to meet the needs of different fields. With the improvement of environmental awareness and the increasingly stringent environmental regulations, the market demand for environmentally friendly coolants continues to increase. Phase change material coolants, as a new type of environmentally friendly product, have the characteristics of non-toxic, harmless, and degradable, which meets the requirements of green development.

Phase change material coolants can be divided into low-temperature phase change material coolants, medium-temperature phase change material coolants and high-temperature phase change material coolants according to the phase change temperature.

The phase change temperature of low-temperature phase change material coolants is generally lower than 100°C, and common ones include hydrated salts, paraffin, etc. It is widely used in textiles, refrigeration equipment and other fields.

The phase change temperature range of medium-temperature phase change material coolants is between 100°C and 200°C, and it is mainly composed of organic matter and polymer materials. It is widely used in construction, mobile thermal storage technology and solar thermal storage and other fields.

The phase change temperature range of high-temperature phase change material coolants is between 200°C and 2000°C, and it is used in aerospace and military fields.

Phase change material coolants

The upstream is the raw material supplier, providing the main raw materials of coolants such as phase change materials, ethylene glycol, and glycerin

The midstream is the coolant manufacturer, which processes and mixes the raw materials to make phase change material coolant products that meet the requirements.

The downstream is mainly data centers and new energy vehicle manufacturers, which need to use phase change material coolants for thermal management and cooling.

In summary, the phase change material coolant market has broad development prospects and huge market potential.

LP Information, Inc. (LPI) ' newest research report, the “Phase Change Material Coolant Industry Forecast” looks at past sales and reviews total world Phase Change Material Coolant sales in 2025, providing a comprehensive analysis by region and market sector of projected Phase Change Material Coolant sales for 2026 through 2032. With Phase Change Material Coolant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Phase Change Material Coolant industry.

This Insight Report provides a comprehensive analysis of the global Phase Change Material Coolant landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Phase Change Material Coolant portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Phase Change Material Coolant market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Phase Change Material Coolant and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Phase Change Material Coolant.

This report presents a comprehensive overview, market shares, and growth opportunities of Phase Change Material Coolant market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Organic

Inorganic

Compound

Segmentation by Application:

New Energy Vehicles

Data Centers

Electronic Equipment Cooling

Industrial Cooling

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Chemours

PCM Products

Phase Change Solutions

Microtek Laboratories?

ExxonMobil

Shell

Zhejiang Juhua

Lanyang Technology

Zhejiang Noah Fluorine Chemicals

Shanghai Ruyi Environmental Technology

Runhe High-Tech Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Phase Change Material Coolant market?

What factors are driving Phase Change Material Coolant market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Phase Change Material Coolant market opportunities vary by end market size?

How does Phase Change Material Coolant break out by Type, by Application?

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