

Global Composite Phase Change Material Market Growth 2026-2032

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Abstracts

The global Composite Phase Change Material market size is predicted to grow from US\$ 1086 million in 2025 to US\$ 2350 million in 2032; it is expected to grow at a CAGR of 11.7% from 2026 to 2032.

In 2025, global sales of composite phase change materials reached approximately 74,000 metric tons, with an average manufacturer-level selling price of about US\$15 per kilogram. Gross margins among major producers were approximately 28%–42%.

Composite phase change materials are latent heat storage materials that use organic, inorganic, or eutectic phase change components as the thermal storage medium and combine them with polymers, carbon materials, porous inorganic materials, metals, or functional fillers. When the temperature reaches a specified phase transition range, these materials absorb or release substantial latent heat through melting–solidification, solid–solid transition, or other phase change processes, thereby enabling thermal energy storage, temperature regulation, and suppression of temperature rise. Compared with pure phase change materials, composite phase change materials generally offer better shape stability, leakage resistance, thermal conductivity, mechanical strength, and cycling stability.

Upstream raw materials mainly include paraffin, fatty acids, polyethylene glycol, salt hydrates, polymer matrices, expanded graphite, silica, and thermally conductive fillers. Midstream activities mainly comprise phase change component formulation, microencapsulation, polymer-based shape stabilization, porous carrier impregnation, thermally conductive filler compounding, and the forming of sheets, blocks, granules, and other product forms. The core objective is to improve leakage resistance, thermal conductivity, mechanical strength, and cycling stability through composite modification.

Downstream applications primarily include building energy efficiency, cold chain temperature control, electronic thermal management, battery thermal management, thermal energy storage systems, and thermoregulatory textiles.

United States market for Composite Phase Change Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Composite Phase Change Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Composite Phase Change Material is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Composite Phase Change Material players cover Rubitherm Technologies, Microtek Laboratories, Croda International, Axiotherm, MikroCaps, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Composite Phase Change Material 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 Composite Phase Change Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Composite Phase Change Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Composite Phase Change Material 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 Composite Phase Change Material.

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

Segmentation by Type:

Organic Composite Phase Change Material

Inorganic Composite Phase Change Material

Eutectic Composite Phase Change Material

Segmentation by Composite Structure:

Microencapsulated Type

Polymer-Based Shape-Stabilized Type

Porous Carrier Type

Filler-Enhanced Type

Segmentation by Product Form:

Sheet

Block

Granule

Segmentation by Application:

Building Energy Efficiency

Cold Chain Temperature Control

Electronic Thermal Management

Battery Thermal Management

Thermal Energy Storage System

Thermoregulatory Textile

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.

Rubitherm Technologies

Microtek Laboratories

Croda International

Axiotherm

MikroCaps

Miki Riken Industrial

Japan Capsular Products

Encapsys

Wuhan Zhongke Advanced Materials Technology

Hangzhou Yingxing New Material

Guangzhou Zhongjia New Materials Technology

Hangzhou Feijie Technology

Kunshan Qing'an Energy Technology

Beijing Yutian Phase Change Energy Storage Technology

Ningbo Passive Edge Material

Key Questions Addressed in this Report

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

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

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

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

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

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- 1.2 Years Considered
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