

Global Phase Change Thermal Storage Microcapsules Market Growth 2026-2032

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Abstracts

The global Phase Change Thermal Storage Microcapsules market size is predicted to grow from US\$ 305 million in 2025 to US\$ 469 million in 2032; it is expected to grow at a CAGR of 5.3% from 2026 to 2032.

Phase Change Thermal Storage Microcapsules are functional thermal management materials in which phase change materials are used as the core and protected by polymeric or inorganic shell structures. They are commonly produced through in situ polymerization, interfacial polymerization, emulsion polymerization, spray drying or sol gel processes, encapsulating paraffin, fatty acids, alcohols or salt hydrates into micron scale particles. The products are typically supplied as powders, emulsions, slurries, dispersions or functional masterbatches. Key specifications include phase change temperature, latent heat capacity, particle size distribution, encapsulation ratio, thermal stability, washing durability and leakage resistance. Their main function is to absorb or release latent heat during temperature fluctuations, enabling passive temperature regulation, thermal buffering, cold storage and heat storage. Major applications include thermoregulating textiles, building energy saving materials, cold chain packaging, electronics thermal management, battery thermal management and automotive interiors. In 2025, the global microencapsulated phase change materials industry had an estimated average gross margin of around 30% to 45%, with an average market price of approximately US\$8 to US\$30 per kilogram.

Phase Change Thermal Storage Microcapsules represent a functional material category that combines latent heat storage with microencapsulation technology. Their value lies not only in the phase change core material itself, but also in converting leakage prone and difficult to process thermal storage media into dispersible, coatable and compoundable material forms. The upstream supply chain mainly includes paraffin, fatty

acids, salt hydrates, polymer monomers, inorganic shell materials and dispersion additives. The midstream focuses on encapsulation processes, particle size control, phase change temperature design and formulation stability. Downstream demand is distributed across textiles, building materials, cold chain packaging, electronics and new energy thermal management.

The competitive landscape is characterized by strong technology accumulation in Europe and North America, together with faster capacity formation and application development in China. International suppliers generally have advantages in encapsulation know how, long term stability, customer certification and branded application systems, while Chinese suppliers are becoming more active in textile finishing, cold chain materials, electronics cooling and customized thermal management solutions. Recent industry consolidation and technology platform expansion indicate that microencapsulated PCMs are moving beyond traditional thermoregulating textile applications into broader functional thermal management systems.

Policy direction and end market demand are creating a supportive environment for long term growth. Energy efficient buildings, low carbon cold chain logistics, electric vehicle thermal safety, electronics heat dissipation and functional textile upgrading are all pushing the industry toward higher latent heat, lower leakage, formaldehyde free systems, better washing durability, improved cycle stability and multifunctional composite materials. Future growth will be driven by penetration across multiple downstream applications rather than by a single mass market. The industry is expected to remain a relatively small but high value segment with strong formulation barriers and a high degree of customization.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Phase Change Thermal Storage Microcapsules and breaks down the forecast by Core Material, 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 Thermal Storage Microcapsules.

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

Segmentation by Core Material:

Paraffin-based

Fatty Acid

Salt Hydrate-based

Bio-based

Others

Segmentation by Shell Material:

Melamine-Formaldehyde (MF)

Urea-Formaldehyde (UF)

PMMA

Silica

Others

Segmentation by Particle Size:

50 ?m

Others

Segmentation by Phase Change Temperature:

Low Temperature (40°C)

Segmentation by Application:

Smart Textiles & Apparel

Building Energy Conservation

Cold Chain & Thermal Packaging

Electronics & Battery Thermal Management

Automotive Interior

Others

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.

Alexium International Group Ltd / Microtek Laboratories, Inc.

RUBITHERM Technologies GmbH

Croda International Plc

Encapsys, LLC

MikroCaps d.o.o.

Insilico Co., Ltd.

Shanghai Ruisen New Energy Technology Co., Ltd.

Wuhan Advanced Materials entity / Wuhan Institute of Advanced Technology

Hangzhou Feijie Technology Co., Ltd.

Hainan Coinno Intelligent Technology Co., Ltd.

Passive Edge Technology Co., Ltd.

Andores New Energy Co., Ltd.

Shenzhen Hangmei New Material Technology Co., Ltd.

PCM Products Ltd

Key Questions Addressed in this Report

What is the 10-year outlook for the global Phase Change Thermal Storage

Microcapsules market?

What factors are driving Phase Change Thermal Storage Microcapsules market growth, globally and by region?

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

How do Phase Change Thermal Storage Microcapsules market opportunities vary by end market size?

How does Phase Change Thermal Storage Microcapsules break out by Core Material, by Application?

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