

Global Phase Change Thermal Storage Microcapsules Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Phase Change Thermal Storage Microcapsules market size was valued at US\$ 321 million in 2025 and is forecast to a readjusted size of US\$ 485 million by 2032 with a CAGR of 5.0% during review period.

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.

This report is a detailed and comprehensive analysis for global Phase Change Thermal Storage Microcapsules market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Core Material and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Phase Change Thermal Storage Microcapsules market size and forecasts, in

Global Phase Change Thermal Storage Microcapsules Market 2026 by Manufacturers, Regions, Type and Application,...

consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Phase Change Thermal Storage Microcapsules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Phase Change Thermal Storage Microcapsules market size and forecasts, by Core Material and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Phase Change Thermal Storage Microcapsules market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Phase Change Thermal Storage Microcapsules

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Phase Change Thermal Storage Microcapsules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Phase Change Thermal Storage Microcapsules market is split by Core Material and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Core Material, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Core Material

Paraffin-based

Fatty Acid

Salt Hydrate-based

Bio-based

Others

Market segment by Shell Material

Melamine-Formaldehyde (MF)

Urea-Formaldehyde (UF)

PMMA

Silica

Others

Market segment by Particle Size

50 ?m

Others

Market segment by Phase Change Temperature

Low Temperature (40°C)

Market segment by Application

Smart Textiles & Apparel

Building Energy Conservation

Cold Chain & Thermal Packaging

Electronics & Battery Thermal Management

Automotive Interior

Others

Major players covered

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

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 Phase Change Thermal Storage Microcapsules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phase Change Thermal Storage Microcapsules, with price, sales quantity, revenue, and global market share of Phase Change Thermal Storage Microcapsules from 2021 to 2026.

Chapter 3, the Phase Change Thermal Storage Microcapsules competitive situation, sales quantity, revenue, and global market share of top manufacturers

are analyzed emphatically by landscape contrast.

Chapter 4, the Phase Change Thermal Storage Microcapsules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Core Material and by Application, with sales market share and growth rate by Core Material, by Application, from 2021 to 2032.

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 2021 to 2026. and Phase Change Thermal Storage Microcapsules market forecast, by regions, by Core Material, and by Application, with sales and revenue, from 2027 to 2032.

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 Phase Change Thermal Storage Microcapsules.

Chapter 14 and 15, to describe Phase Change Thermal Storage Microcapsules sales channel, distributors, customers, research findings and conclusion.

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