

Global Phase Change Materials (PCM) for Cold Chain Logistics Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Phase Change Materials (PCM) for Cold Chain Logistics market size was valued at US\$ 829 million in 2025 and is forecast to a readjusted size of US\$ 1312 million by 2032 with a CAGR of 7.4% during review period.

Phase Change Materials (PCM) for cold-chain logistics are latent-heat thermal buffers engineered to melt and re-freeze at a defined setpoint (e.g., ~5 °C for 2–8 °C shipping, or other ambient/frozen ranges) so they can absorb/release large amounts of heat during the phase transition and keep the payload compartment temperature stable much longer than sensible coolants. In product form they are usually macro-encapsulated refrigerants (PCM packs/gel bricks, rigid slabs, eutectic plates) used together with insulated shippers, vacuum insulated panels (VIP), or polyurethane/EPS insulation in qualified pack-outs for pharma and food shipments. From an industry-chain perspective, the upstream includes chemical feedstocks and materials such as organic PCMs (paraffin/fatty-acid/bio-based blends) or salt hydrates, plus nucleating/thickening additives, barrier films and rigid containers (HDPE/PP/multilayer laminates), and sealing/valve components; the midstream consists of PCM formulators (tuning phase-change temperature, stability, safety) and refrigerant-pack manufacturers, as well as temperature-controlled packaging integrators that combine PCM + insulation + shipper design + qualification testing and often bundle IoT/data loggers; the downstream includes pharmaceutical/biotech (vaccines, biologics, clinical trials, diagnostics), perishable food (fresh, dairy, seafood), specialty chemicals, plus logistics stakeholders such as 3PL cold-chain providers, airlines/forwarders, and last-mile distribution networks, where purchasing decisions are driven by required temperature lane profiles, duration, reuse/reverse logistics, and compliance/quality validation.

This report is a detailed and comprehensive analysis for global Phase Change Materials (PCM) for Cold Chain Logistics market. Both quantitative and qualitative analyses are presented by company, by region & country, by Type 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 Materials (PCM) for Cold Chain Logistics market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Phase Change Materials (PCM) for Cold Chain Logistics market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Phase Change Materials (PCM) for Cold Chain Logistics market size and forecasts, by Type and by Application, in consumption value (\$ Million), 2021-2032

Global Phase Change Materials (PCM) for Cold Chain Logistics market shares of main players, in revenue (\$ Million), 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 Materials (PCM) for Cold Chain Logistics

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 Materials (PCM) for Cold Chain Logistics market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Croda International, PureTemp, Rubitherm, Insolcorp, Cryopak, Microtek Laboratories, Phase Change Solutions, Climator, Bocn, Saixin Cold Chain Technology, etc.

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

Market segmentation

Phase Change Materials (PCM) for Cold Chain Logistics market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Type and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

- Organic Phase Change Materials

- Inorganic Phase Change Materials

- Composite Phase Change Materials

Market segment by Product

- Frozen Type

- Refrigerated Type

Market segment by Application

- Pharmaceuticals

- Food

- Others

Market segment by players, this report covers

- Croda International

- PureTemp

Rubitherm

Insolcorp

Cryopak

Microtek Laboratories

Phase Change Solutions

Climator

Bocn

Saixin Cold Chain Technology

Solee

RuhrTech

PCM Products

Chuangshi Cold Chain Technology

isi Cold Chain Technology

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Phase Change Materials (PCM) for Cold Chain Logistics product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Phase Change Materials (PCM) for Cold Chain Logistics, with revenue, gross margin, and global market share of Phase Change Materials (PCM) for Cold Chain Logistics from 2021 to 2026.

Chapter 3, the Phase Change Materials (PCM) for Cold Chain Logistics competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and by Application, with consumption value and growth rate by Type, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Phase Change Materials (PCM) for Cold Chain Logistics market forecast, by regions, by Type and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Phase Change Materials (PCM) for Cold Chain Logistics.

Chapter 13, to describe Phase Change Materials (PCM) for Cold Chain Logistics research findings and conclusion.

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