

# Global Phase Change Materials (PCM) for Cold Chain Logistics Market Growth (Status and Outlook) 2026-2032

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## Abstracts

The global Phase Change Materials (PCM) for Cold Chain Logistics market size is predicted to grow from US\$ 788 million in 2025 to US\$ 1280 million in 2032; it is expected to grow at a CAGR of 7.9% from 2026 to 2032.

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.,  $\sim 5^{\circ}\text{C}$  for  $2\text{--}8^{\circ}\text{C}$  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.

United States market for Phase Change Materials (PCM) for Cold Chain Logistics 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 Phase Change Materials (PCM) for Cold Chain Logistics 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 Phase Change Materials (PCM) for Cold Chain Logistics is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Phase Change Materials (PCM) for Cold Chain Logistics players cover Croda International, PureTemp, Rubitherm, Insolcorp, Cryopak, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Phase Change Materials (PCM) for Cold Chain Logistics 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 Materials (PCM) for Cold Chain Logistics.

This report presents a comprehensive overview, market shares, and growth opportunities of Phase Change Materials (PCM) for Cold Chain Logistics market by product type, application, key players and key regions and countries.

Segmentation by Type:

Organic Phase Change Materials

Inorganic Phase Change Materials

Composite Phase Change Materials

Segmentation by Product:

Frozen Type

Refrigerated Type

Segmentation by Application:

Pharmaceuticals

Food

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 analyzing the company's coverage, product portfolio, its market penetration.

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

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