

Global Phase Change Materials (PCM) for Cold Chain Logistics Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Phase Change Materials (PCM) for Cold Chain Logistics market size is expected to reach \$ 1312 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

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., ~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 studies the global Phase Change Materials (PCM) for Cold Chain Logistics demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Phase Change Materials (PCM) for Cold Chain Logistics, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Phase Change Materials (PCM) for Cold Chain Logistics that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Phase Change Materials (PCM) for Cold Chain Logistics total market, 2021-2032, (USD Million)

Global Phase Change Materials (PCM) for Cold Chain Logistics total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Phase Change Materials (PCM) for Cold Chain Logistics total market, key domestic companies, and share, (USD Million)

Global Phase Change Materials (PCM) for Cold Chain Logistics revenue by player, revenue and market share 2021-2026, (USD Million)

Global Phase Change Materials (PCM) for Cold Chain Logistics total market by Type, CAGR, 2021-2032, (USD Million)

Global Phase Change Materials (PCM) for Cold Chain Logistics total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Phase Change Materials (PCM) for Cold Chain Logistics market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Phase Change Materials (PCM) for Cold Chain Logistics Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Phase Change Materials (PCM) for Cold Chain Logistics Market, Segmentation by Type:

Organic Phase Change Materials

Inorganic Phase Change Materials

Composite Phase Change Materials

Global Phase Change Materials (PCM) for Cold Chain Logistics Market, Segmentation by Product:

Frozen Type

Refrigerated Type

Global Phase Change Materials (PCM) for Cold Chain Logistics Market, Segmentation by Application:

Pharmaceuticals

Food

Others

Companies Profiled:

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

Key Questions Answered

1. How big is the global Phase Change Materials (PCM) for Cold Chain Logistics market?
2. What is the demand of the global Phase Change Materials (PCM) for Cold Chain Logistics market?
3. What is the year over year growth of the global Phase Change Materials (PCM) for Cold Chain Logistics market?
4. What is the total value of the global Phase Change Materials (PCM) for Cold Chain Logistics market?
5. Who are the Major Players in the global Phase Change Materials (PCM) for Cold Chain Logistics market?
6. What are the growth factors driving the market demand?

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