

# **North America Advanced Phase Change Materials Market Report by Type (Organic PCM, Inorganic PCM, Bio-Based PCM), Form (Encapsulated, Non-Encapsulated), Application (Building and Construction, Packaging, HVAC, Textiles, Electronics, and Others), and Country 2024-2032**

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## **Abstracts**

The North America advanced phase change materials market size reached US\$ 741.2 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 2,769.0 Million by 2032, exhibiting a growth rate (CAGR) of 15.3% during 2024-2032.

The advanced phase change materials (PCMs) refer to the elements with a capability to store latent heat emitted during distinctive phase transitions. At a commercial level, they store latent heat released during the solid-liquid phase transition. Advanced phase change materials enhance the heat storage capacity of buildings and are highly efficient in power distribution and generation systems. They are employed for cooling electrical engines, foods and drinks, maintaining high temperatures in greenhouses and conditioning of buildings.

North America represents one of the largest advanced phase change materials market owing to the highly developed manufacturing industries for electric and electronic devices. These devices use advanced PCMs pertaining to their high latent heat of fusion, specific heat, thermal stability and thermal conductivity in both solid and liquid phases. Several initiatives by government institutions, such as Department of Energy, are taken for the assessment of costs, risks and technology performance of advanced PCMs for their wide application in the region. Availability of these materials at affordable prices and their potential to provide zero net energy buildings will continue to spur the

demand in the upcoming years.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the North America advanced phase change materials market report, along with forecasts at the regional and country levels from 2024-2032. Our report has categorized the market based on type, form and application.

#### Key Regions Analysed

United States

Canada

Mexico

#### Analysis for Each Country

#### Market by Type

Organic PCM

Inorganic PCM

Bio-Based PCM

#### Market by Form

Encapsulated

Non-Encapsulated

#### Market by Application

Building and Construction

Packaging

HVAC

Textiles

Electronics

Others

#### Value Chain Analysis

Key Drivers and Challenges

Porters Five Forces Analysis

PESTEL Analysis

Government Regulations

Competitive Landscape

Competitive Structure

## Key Player Profiles

### Key Questions Answered in This Report:

How has the North America advanced phase change materials market performed so far and how will it perform in the coming years?

What are the key regions in the North America advanced phase change materials market?

What has been the impact of COVID-19 on the North America advanced phase change materials market?

What is the breakup of the North America advanced phase change materials market on the basis of type?

What is the breakup of the North America advanced phase change materials market on the basis of form?

What is the breakup of the North America advanced phase change materials market on the basis of application?

What are the various stages in the value chain of the North America advanced phase change materials industry?

What are the key driving factors and challenges in the North America advanced phase change materials industry?

What is the structure of the North America advanced phase change materials industry and who are the key players?

What is the degree of competition in the North America advanced phase change materials industry?

What are the profit margins in the North America advanced phase change materials industry?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 GLOBAL ADVANCED PHASE CHANGE MATERIALS MARKET**

- 5.1 Market Performance
- 5.2 Market Breakup by Type
- 5.3 Market Breakup by Form
- 5.4 Market Breakup by Application
- 5.5 Market Breakup by Region
- 5.6 Market Forecast

### **6 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET**

- 6.1 Market Performance
- 6.2 Impact of COVID-19
- 6.3 Market Forecast

### **7 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET:**

*North America Advanced Phase Change Materials Market Report by Type (Organic PCM, Inorganic PCM, Bio-Based PCM...*

## **BREAKUP BY TYPE**

- 7.1 Organic PCM
- 7.2 Inorganic PCM
- 7.3 Bio-Based PCM

## **8 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET: BREAKUP BY FORM**

- 8.1 Encapsulated
- 8.2 Non-Encapsulated

## **9 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET: BREAKUP BY APPLICATION**

- 9.1 Building and Construction
- 9.2 Packaging
- 9.3 HVAC
- 9.4 Textiles
- 9.5 Electronics
- 9.6 Others

## **10 NORTH AMERICA ADVANCED PHASE CHANGE MATERIALS MARKET: BREAKUP BY COUNTRY**

- 10.1 United States
  - 10.1.1 Historical Market Trends
  - 10.1.2 Market Breakup by Type
  - 10.1.3 Market Breakup by Form
  - 10.1.4 Market Breakup by Application
  - 10.1.5 Market Forecast
- 10.2 Canada
  - 10.2.1 Historical Market Trends
  - 10.2.2 Market Breakup by Type
  - 10.2.3 Market Breakup by Form
  - 10.2.4 Market Breakup by Application
  - 10.2.5 Market Forecast
- 10.3 Mexico
  - 10.3.1 Historical Market Trends

- 10.3.3 Market Breakup by Type
- 10.3.3 Market Breakup by Form
- 10.3.4 Market Breakup by Application
- 10.3.5 Market Forecast

## **11 SWOT ANALYSIS**

- 11.1 Overview
- 11.2 Strengths
- 11.3 Weaknesses
- 11.4 Opportunities
- 11.5 Threats

## **12 VALUE CHAIN ANALYSIS**

- 12.1 Overview
- 12.2 Research and Development
- 12.3 Raw Material Procurement
- 12.4 Manufacturing
- 12.5 Distribution
- 12.6 Export
- 12.7 End-Use

## **13 PORTER'S FIVE FORCES ANALYSIS**

- 13.1 Overview
- 13.2 Bargaining Power of Buyers
- 13.3 Bargaining Power of Suppliers
- 13.4 Degree of Rivalry
- 13.5 Threat of New Entrants
- 13.6 Threat of Substitutes

## **14 PRICE ANALYSIS**

## **15 COMPETITIVE LANDSCAPE**

- 15.1 Market Structure
- 15.2 Key Players
- 15.3 Profiles of Key Players

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