

Global Phase Change Materials (PCM) Market 2018 by Manufacturers, Regions, Type and Application, Forecast to 2023

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Abstracts

Phase change materials (PCMs) are substances with a high enthalpy of fusion, also known as latent heat, meaning they can store large quantities of heat energy as they change phase. When melting, they absorb heat and maintain the temperature of the environment at a certain value until completely molten. When the temperature of the environment falls below the crystallisation temperature, the PCM will start to solidify, releasing large quantities of heat and maintaining the temperature until completely solid.

Latent heat storage can be achieved through liquid–solid, solid–liquid, solid–gas and liquid–gas phase changes. However, only solid–liquid and liquid–solid phase changes are practical for PCMs. Although liquid–gas transitions have a higher heat of transformation than solid–liquid transitions, liquid–gas phase changes are impractical for thermal storage because large volumes or high pressures are required to store the materials in their gas phase. Solid–solid phase changes are typically very slow and have a relatively low heat of transformation.

Phase change materials are products that release or absorb heat when they change from one phase to another (usually from solid to liquid or vice versa). These materials store thermal energy in the form of latent heat, which is released when they freeze or crystallize and absorbed when they melt at their respective melting/freezing temperature points. Hence, they are used in a broad range of applications that require thermal control and management.

Scope of the Report:

This report focuses on the Phase Change Materials (PCM) in global market, especially

in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

Currently, The industry concentration is not high, the technical barriers and financial barriers of Advanced Phase Change Materials (PCM) are also not high. The companies in the world that produce Advanced Phase Change Materials (PCM) mainly concentrate in China, India, Southeast Asia, Europe, Japan and USA. Raw materials are also concentrated in these regions.

The worldwide market for Phase Change Materials (PCM) is expected to grow at a CAGR of roughly xx% over the next five years, will reach xx million US\$ in 2023, from xx million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

BASF

Honeywell

Cryopak

Entropy Solutions

Climator Sweden

Phase Change Energy Solutions

Outlast Technologies

Dow Building Solutions

Chemours Company

PCM Energy

Rubitherm Technologies

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

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

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

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Organic

Inorganic

Bio-based

Market Segment by Applications, can be divided into

Building & Construction

Refrigeration

Consumer Goods

Others

There are 15 Chapters to deeply display the global Phase Change Materials (PCM) market.

Chapter 1, to describe Phase Change Materials (PCM) Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Phase Change Materials (PCM), with sales, revenue, and price of Phase Change Materials (PCM), in 2016 and 2017;

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Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Phase Change Materials (PCM), for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Phase Change Materials (PCM) market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Phase Change Materials (PCM) sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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