

Global Formaldehyde-free Phase Change Material Microcapsules Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Formaldehyde-free Phase Change Material Microcapsules market size was valued at US\$ 21.1 million in 2024 and is forecast to a readjusted size of USD 34.4 million by 2031 with a CAGR of 4.1% during review period.

Formaldehyde-free Phase Change Material Microcapsules are a type of material that uses a special process to encapsulate phase change materials in microcapsules. Its core function is to achieve efficient storage and release of thermal energy through the latent heat storage characteristics of phase change materials, while avoiding the release of harmful substances such as formaldehyde in traditional microcapsules, meeting environmental protection and health needs. It has the characteristics of high efficiency, high strength, good durability, and health and environmental protection. An important feature of formaldehyde-free phase change microcapsules is their environmental friendliness. Due to the use of new technology, this type of microcapsule does not contain formaldehyde, meets environmental protection requirements, and is suitable for occasions with high health requirements.

This report is a detailed and comprehensive analysis for global Formaldehyde-free Phase Change Material Microcapsules market. Both quantitative and qualitative analyses are presented by manufacturers, 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.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Key Features:

Global Formaldehyde-free Phase Change Material Microcapsules market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Formaldehyde-free Phase Change Material Microcapsules market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Formaldehyde-free Phase Change Material Microcapsules market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2020-2031

Global Formaldehyde-free Phase Change Material Microcapsules market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2020-2025

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 Formaldehyde-free Phase Change Material Microcapsules

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 Formaldehyde-free Phase Change Material Microcapsules market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Microcaps, Encapsys, Croda, Hangzhou Yingnuoke Specialty Materials, Wuhan Zhongke Advanced Materials Technology, Hubei Xingfa Chemicals Group, SIAT, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Formaldehyde-free Phase Change Material Microcapsules market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Organic Type

Inorganic Type

Market segment by Application

Textile

Construction

Thermal Management

Other

Major players covered

BASF

Microcaps

Encapsys

Croda

Hangzhou Yingnuoke Specialty Materials

Wuhan Zhongke Advanced Materials Technology

Hubei Xingfa Chemicals Group

SIAT

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Formaldehyde-free Phase Change Material Microcapsules product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Formaldehyde-free Phase Change Material Microcapsules, with price, sales quantity, revenue, and global market share of Formaldehyde-free Phase Change Material Microcapsules from 2020 to 2025.

Chapter 3, the Formaldehyde-free Phase Change Material Microcapsules competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Formaldehyde-free Phase Change Material Microcapsules breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020

to 2025.and Formaldehyde-free Phase Change Material Microcapsules market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Formaldehyde-free Phase Change Material Microcapsules.

Chapter 14 and 15, to describe Formaldehyde-free Phase Change Material Microcapsules sales channel, distributors, customers, research findings and conclusion.

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