

Microcrystalline Cellulose Market Report by Source Type (Wood-based, Non-Wood Based), Route of Synthesis (Reactive Extrusion, Enzyme Mediated, Steam Explosion, Acid Hydrolysis, Mechanical Grinding, Ultrasonication), End User (Pharmaceutical, Food and Beverages, Cosmetics and Personal Care, and Others), and Region 2024-2032

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Abstracts

The global microcrystalline cellulose market size reached US\$ 1,282.8 Million in 2023. Looking forward, IMARC Group expects the market to reach US\$ 1,912.2 Million by 2032, exhibiting a growth rate (CAGR) of 4.4% during 2024-2032.

Microcrystalline cellulose (MCC) refers to purified and depolymerized cellulose with shorter crystalline polymer chains. It is commonly used as a filler, disintegrant and bulking, binding, lubricating agent in drug formulations. MCC is manufactured through controlled partial hydrolysis, purification and drying of high purity wood cellulose and other fibrous plant material. It can also be commercially synthesized using reactive extrusion, enzyme-mediated synthesis, steam explosion and acid hydrolysis. It acts as a stability enhancer and auxiliary suspending agent. It is added to tablets, oral fluids, medicinal gels and chewable and mouth dissolving tablets and nutraceuticals for prolonged drug and nutrient release.

Microcrystalline Cellulose Market Trends:

Significant growth in the pharmaceutical industry across the globe is one of the key factors creating a positive outlook for the market. Moreover, the widespread adoption of MCC in the manufacturing of food and beverage products is providing a thrust to the

market growth. MCC is a chemically inert and tasteless compound, which is used to produce low-fat dairy products, such as frozen yogurt, whipped cream and ice cream. It is extensively used as an anti-caking and suspending agent, stabilizer and a substitute for unhealthy fats and oils to achieve the desired consistency and texture in baked products. Additionally, the increasing utilization of degradable bio-composites and reinforced polylactic acid for 3D printing is acting as another growth-inducing factor. MCC acts as an additive for the 3D fabrication of building and construction components with enhanced tensile and thermal strength and minimal waste and power consumption. Other factors, including the increasing demand for non-wood-based MCC manufactured using agricultural waste, along with extensive research and development (R&D) activities, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global microcrystalline cellulose market report, along with forecasts at the global, regional and country level from 2024-2032. Our report has categorized the market based on source type, route of synthesis and end user.

Breakup by Source Type:

Wood-based

Non-wood based

Breakup by Route of Synthesis:

Reactive Extrusion

Enzyme Mediated

Steam Explosion

Acid Hydrolysis

Mechanical Grinding

Ultrasonication

Breakup by End User:

- Pharmaceutical
- Food and Beverages
- Cosmetics and Personal Care
- Others

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia
- Others
- Europe

Germany

France

United Kingdom

Italy

Spain

Russia

Others

Latin America

Brazil

Mexico

Others

Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Accent Microcell Pvt. Ltd., Asahi Kasei Corporation, Chemfield Cellulose, DFE Pharma GmbH & Co. KG (Royal FrieslandCampina N.V.), DuPont de Nemours Inc, Huzhou City Linghu Xinwang Chemical Co., Ltd, JRS PHARMA GmbH & Co. KG, Mingtai Chemical Co Ltd., Rayonier Advanced Materials, Roquette Frères and Sigachi Industries.

Key Questions Answered in This Report

1. What was the size of the global microcrystalline cellulose market in 2023?
2. What is the expected growth rate of the global microcrystalline cellulose market

during 2024-2032?

3. What are the key factors driving the global microcrystalline cellulose market?
4. What has been the impact of COVID-19 on the global microcrystalline cellulose market?
5. What is the breakup of the global microcrystalline cellulose market based on the source type?
6. What is the breakup of the global microcrystalline cellulose market based on the route of synthesis?
7. What is the breakup of the global microcrystalline cellulose market based on the end user?
8. What are the key regions in the global microcrystalline cellulose market?
9. Who are the key players/companies in the global microcrystalline cellulose market?

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