

Microcrystalline Cellulose Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global microcrystalline cellulose market size reached US\$ 1,157 Million in 2021. Looking forward, IMARC Group expects the market to reach US\$ 1,563 Million by 2027, exhibiting a growth rate (CAGR) of 5.06% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use industries. These insights are included in the report as a major market contributor.

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 2022-2027. 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 Freres and Sigachi Industries.

Key Questions Answered in This Report:

How has the global microcrystalline cellulose market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global microcrystalline cellulose market?

What are the key regional markets?

What is the breakup of the market based on the source type?

What is the breakup of the market based on the route of synthesis?

What is the breakup of the market based on the end user?

What are the various stages in the value chain of the industry?

What are the key driving factors and challenges in the industry?

What is the structure of the global microcrystalline cellulose market and who are the key players?

What is the degree of competition in the industry?

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