

# The Global Market for Microcrystalline Cellulose (MCC) 2022-2032

<https://marketpublishers.com/r/G0EF4E4F1369EN.html>

Date: February 2022

Pages: 85

Price: US\$ 1,700.00 (Single User License)

ID: G0EF4E4F1369EN

## Abstracts

Microcrystalline Cellulose (MCC) is made from high-grade, purified wood cellulose. Hydrolysis is used to remove cellulose until the microcrystalline form remains. With its amorphous cellulose portions removed, it becomes an inert, white, free-flowing powder. It can be processed in a number of ways, through reactive extrusion, steam explosion, and acid hydrolysis. Main markets are in pharmaceuticals, food additives and cosmetics.

The major sources of MCC are wood pulp and cotton fiber. Recently, other non-woody biomass, such as soybean, corn stalk, oat and rice hulls, as well as sugar beet pulp, bagasse and maize cob, wheat, barley and oat straw, groundnut shell and rice husks, reed stalks and cereal straw, have been increasingly used.

Report contents include:

Market drivers and trends in Microcrystalline Cellulose (MCC).

Recent industry developments in Microcrystalline Cellulose (MCC)

Technology analysis including source materials and synthesis methods.

Market analysis including current and future applications, commercial products and market revenues, historical and estimated to 2032. Markets covered include Pharmaceuticals, Cosmetics, Food additives, Composites, Packaging, Paint and coatings, 3D printing etc.

23 Companies profiled including Asahi Kasei , Dupont Pharma, Roquette,

Mingtai Chemical, Sweetwater Energy and Sigachi Industries.

## Contents

### 1 INTRODUCTION

- 1.1 Cellulose
- 1.2 Microcrystalline cellulose
  - 1.2.1 Preparation
- 1.3 Source materials
  - 1.3.1 Wood source materials
  - 1.3.2 Non-wood source materials
- 1.4 Synthesis of MCC
  - 1.4.1 Reactive Extrusion
  - 1.4.2 Enzyme Mediated
  - 1.4.3 Steam Explosion
  - 1.4.4 Acid Hydrolysis
  - 1.4.5 Alkaline retreatment

### 2 MARKETS AND APPLICATIONS

- 2.1 Market drivers and trends
- 2.2 Market developments 2020-2022
- 2.3 Global revenues for Microcrystalline Cellulose (MCC), 2017-2032 (USD)
- 2.4 Global revenues, total
- 2.5 Global revenues, by market
- 2.6 Global revenues, by region
- 2.7 Main current applications
- 2.8 Future applications
- 2.9 Pharmaceuticals
  - 2.9.1 Advantages of using MCC
  - 2.9.2 Applications
    - 2.9.2.1 Capsules and tablets
    - 2.9.2.2 Medicated gels
  - 2.9.3 Global revenues
- 2.10 Cosmetics
  - 2.10.1 Advantages of using MCC
  - 2.10.2 Applications
  - 2.10.3 Global revenues
- 2.11 Food additives
  - 2.11.1 Advantages of using MCC

- 2.11.2 Applications
- 2.11.3 Global revenues
- 2.12 Composites
  - 2.12.1 Advantages of using MCC
  - 2.12.2 Applications
    - 2.12.2.1 Reinforcement materials
- 2.13 Packaging
  - 2.13.1 Advantages of using MCC
  - 2.13.2 Applications
    - 2.13.2.1 Active packaging
- 2.14 Insulation
  - 2.14.1 Advantages of using MCC
  - 2.14.2 Applications
- 2.15 Paint and coatings
  - 2.15.1 Advantages of using MCC
  - 2.15.2 Applications
    - 2.15.2.1 Additive in coating paint films for non-stick coatings
- 2.16 3D printing
  - 2.16.1 Applications
    - 2.16.1.1 Biocomposite filaments for 3D printing

### **3 MICROCRYSTALLINE CELLULOSE SPHERE COMPANY PROFILES 55 (25 COMPANY PROFILES)**

### **4 RESEARCH SCOPE AND METHODOLOGY**

- 4.1 Report scope
- 4.2 Research methodology

### **5 REFERENCES**

## List Of Tables

### LIST OF TABLES

Table 1. Market drivers and trends in Microcrystalline Cellulose.

Table 2. Market developments in Microcrystalline Cellulose (MCC) 2020-2022.

Table 3. Global revenues for Microcrystalline Cellulose (MCC), 2017-2032 (USD).

Table 4. Global revenues for Microcrystalline Cellulose (MCC), 2017-2032 (USD), by market.

Table 5. Global revenues for Microcrystalline Cellulose (MCC), 2017-2032 (USD), by region.

Table 6. Global revenues for Microcrystalline Cellulose (MCC) in pharmaceuticals, 2017-2032 (USD).

Table 7. Global revenues for Microcrystalline Cellulose (MCC) in cosmetics, 2017-2032 (USD).

Table 8. Market analysis for microcrystalline cellulose spheres in food additives-market trends and drivers, applications, market volumes.

Table 9. Global revenues for Microcrystalline Cellulose (MCC) in food additives, 2017-2032 (USD).

Table 10. Ashai Kasei MCC products.

Table 11. DFE pharma MCC products.

Table 12. Dupont Pharma MCC products.

Table 13. JRS pharma MCC products.

Table 14. Mingtai MCC products.

Table 15. SANCEL<sup>®</sup> Microcrystalline Cellulose Spheres.

Table 16. Roquette MCC products.

Table 17. CELPHERE<sup>™</sup> products range.

## List Of Figures

### LIST OF FIGURES

Figure 1. Scanning electron micrograph of 200- $\mu$ m -diameter cellulose microsphere beads.

Figure 2. Production of Microcrystalline Cellulose by Reactive Extrusion schematic.

Figure 3. Enzymatically-Mediated Production of Microcrystalline Cellulose schematic.

Figure 4. Steam explosion process schematic.

Figure 5. Acid hydrolysis production of Microcrystalline cellulose.

Figure 6. Global revenues for Microcrystalline Cellulose (MCC), 2017-2032 (USD).

Figure 7. Global revenues for Microcrystalline Cellulose (MCC), 2017-2032 (USD), by market.

Figure 8. Global revenues for Microcrystalline Cellulose (MCC), 2017-2032 (USD), by region.

Figure 9. Global revenues for Microcrystalline Cellulose (MCC) in pharmaceuticals, 2017-2032 (USD).

Figure 10. Global revenues for Microcrystalline Cellulose (MCC) in cosmetics, 2017-2032 (USD).

Figure 11. Global revenues for Microcrystalline Cellulose (MCC) in food additives, 2017-2032 (USD).

Figure 12. 3D printing with MCC.

Figure 13. Ceolus product properties.

Figure 14: Plantrose process.

## I would like to order

Product name: The Global Market for Microcrystalline Cellulose (MCC) 2022-2032

Product link: <https://marketpublishers.com/r/G0EF4E4F1369EN.html>

Price: US\$ 1,700.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

[info@marketpublishers.com](mailto:info@marketpublishers.com)

## Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G0EF4E4F1369EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:  
Last name:  
Email:  
Company:  
Address:  
City:  
Zip code:  
Country:  
Tel:  
Fax:  
Your message:

**\*\*All fields are required**

Customer signature \_\_\_\_\_

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970