

# Global Carotenoid Microcapsule Powder Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Carotenoid Microcapsule Powder market size is expected to reach \$ 341 million by 2032, rising at a market growth of 7.0% CAGR during the forecast period (2026-2032).

In 2025, the global production volume of carotenoid microcapsule powder reached 8,879 tons, with an average selling price of USD 20 per kg, production capacity of 11,500 tons, and a gross margin of 34%.

Carotenoid Microcapsule Powder is a powdered product in which natural or synthetic carotenoids (such as  $\beta$ -carotene, lutein, zeaxanthin, lycopene, etc.) are encapsulated using microencapsulation techniques like spray drying, freeze drying, coacervation, or co-precipitation with food-grade carriers such as sugars, starch, gelatin, or gum arabic. Microencapsulation significantly enhances the stability, heat resistance, and antioxidant capacity of carotenoids, while improving solubility, dispersibility, and sensory properties, making it suitable for infant formula, functional foods, dietary supplements, beverages, and medical nutrition products.

Upstream of the carotenoid microcapsule powder industry mainly includes raw carotenoids, natural colorants, food-grade carriers, emulsifiers, and microencapsulation equipment such as spray dryers, freeze dryers, homogenizers, and automated mixing systems. The midstream segment consists of microencapsulation manufacturers, whose key barriers lie in carotenoid stability control, encapsulation efficiency optimization, particle uniformity, and compliance with food safety and nutrition standards. Downstream applications cover infant formula, functional foods and beverages, fortified foods, dietary supplements, and medical nutrition products, with demand driven by health trends, consumer awareness of functional foods, and nutrition

fortification policies.

This report studies the global Carotenoid Microcapsule Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carotenoid Microcapsule Powder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carotenoid Microcapsule Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carotenoid Microcapsule Powder total production and demand, 2021-2032, (Tons)

Global Carotenoid Microcapsule Powder total production value, 2021-2032, (USD Million)

Global Carotenoid Microcapsule Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Carotenoid Microcapsule Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Carotenoid Microcapsule Powder domestic production, consumption, key domestic manufacturers and share

Global Carotenoid Microcapsule Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Carotenoid Microcapsule Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Carotenoid Microcapsule Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Carotenoid Microcapsule Powder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include DSM-Firmenich, BASF, INNOBIO, Zhejiang Tianhecheng Bio-technology, Divi's Nutraceuticals, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices

used in analyzing the World Carotenoid Microcapsule Powder market

#### Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

#### Global Carotenoid Microcapsule Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Carotenoid Microcapsule Powder Market, Segmentation by Type:

Beta-carotene

Lutein

Zeaxanthin

Astaxanthin

Lycopene

Others

Global Carotenoid Microcapsule Powder Market, Segmentation by Encapsulation Technology:

Spray-Dried

Emulsion-Based

Liposome

Complex Coacervation

Global Carotenoid Microcapsule Powder Market, Segmentation by Application:

Food & Beverage

Dietary Supplements

Feed

Pharmaceutical & Healthcare

Companies Profiled:

DSM-Firmenich

BASF

INNOBIO

Zhejiang Tianhecheng Bio-technology

Divi's Nutraceuticals

Key Questions Answered:

1. How big is the global Carotenoid Microcapsule Powder market?
2. What is the demand of the global Carotenoid Microcapsule Powder market?
3. What is the year over year growth of the global Carotenoid Microcapsule Powder market?
4. What is the production and production value of the global Carotenoid Microcapsule Powder market?
5. Who are the key producers in the global Carotenoid Microcapsule Powder market?
6. What are the growth factors driving the market demand?

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