

Global Algae Oil DHA Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Algae Oil DHA Powder market size is expected to reach \$ 345 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

In 2025, global Algae Oil DHA Powder sales reached approximately 6,597 Tons with an average global market price of around 30.98 USD per Kg.

Algae Oil DHA Powder is a powdered Omega-3 nutritional ingredient produced from DHA-rich algal oil through emulsification, homogenization, microencapsulation, spray drying, oxidation-stability treatment, and powder post-processing. Compared with liquid algal DHA oil, this powdered form embeds oxidation-sensitive DHA oil into a protective wall-material matrix, improving oxidative stability, reducing algal-oil odor, enhancing powder flowability and dispersibility, and making it more compatible with food processing. It is particularly suitable for infant formula, maternal nutrition powder, children's growing-up milk powder, solid beverages, nutrition sachets, tablets, granules, baked goods, and functional foods. The product retains the key advantages of algal DHA, including non-fish origin, traceability, vegan suitability, lower contaminant risk, and sustainable supply. It is an important product form that enables algal DHA oil to move from lipid-based ingredients into large-scale food industry applications. As demand rises for low-odor, highly stable, and easy-to-process DHA ingredients in maternal and infant nutrition, adult nutrition, and functional foods, Algae Oil DHA Powder is becoming a key foundational ingredient in the premium nutrition fortification market.

Algae Oil DHA Powder is a further-processed form of algal DHA oil. Compared with ordinary oil products, it adds emulsification, encapsulation, spray drying, powder stabilization, and application validation, giving it higher technical value and stronger customer stickiness. Based on corporate annual reports, investor communication

materials, and brokerage research, the gross margin of human-nutrition-grade Algae Oil DHA Powder can be broadly estimated at around 45%?60%. Infant-formula-grade products, high-stability microencapsulated powders, and powders for maternal and infant nutrition generally sit at the higher end due to strict regulatory requirements, long customer qualification cycles, and complex stability validation. Ordinary food-grade powders and cost-sensitive functional-food applications typically have relatively lower margins. The upstream value chain includes high-yield DHA microalgae strains, carbon sources, nitrogen sources, fermentation auxiliaries, antioxidants, encapsulation wall materials, emulsifiers, fermentation equipment, refining equipment, and spray-drying equipment. The midstream covers strain preservation, industrial fermentation, oil extraction, refining and deodorization, emulsification and homogenization, microencapsulation, spray drying, powder sieving, stability testing, and quality control. Downstream customers include infant formula manufacturers, maternal nutrition brands, children's nutrition companies, solid beverage producers, health food companies, and OEM/ODM manufacturers. The core barriers lie in high-quality DHA oil bases, encapsulation-system design, oxidation control, low-odor performance, powder-processing properties, and formulation collaboration with customers.

Market Development Opportunities & Main Driving Factors

The market opportunity for Algae Oil DHA Powder comes from the expansion of DHA applications from traditional oils and softgels into milk powder, nutrition powders, solid beverages, and compound functional foods. Infant formula, maternal nutrition powders, children's growing-up milk powder, and adult nutrition powders all show increasing demand for DHA, but these products require stronger stability, lower odor, better dispersibility, flowability, and processing compatibility. This is driving microencapsulated Algae Oil DHA Powder to become a more commercially valuable product form. Compared with fish-oil-derived ingredients, algal DHA offers non-fish origin, lower contaminant risk, traceability, and sustainable supply advantages, making it better suited to premium maternal and infant products, plant-based nutrition, and clean-label positioning. The clarification of DHA algal oil requirements in China's health food filing system also provides a clearer regulatory pathway for nutrient supplements, solid beverages, and compound nutrition products. For ingredient suppliers, powder products not only expand downstream application boundaries but also support the transition from single-ingredient supply to formulation solution delivery.

Market Challenges, Risks, & Restraints

The main challenges for Algae Oil DHA Powder lie in encapsulation stability, production

cost, and end-use compatibility. DHA is highly unsaturated. Although powder conversion improves convenience, the product may still face oxidation, odor release, moisture absorption, caking, uneven dispersion, and active-content degradation during processing, storage, transportation, and shelf life. Wall materials, emulsification systems, spray-drying temperature, particle structure, antioxidant systems, and packaging barrier performance all affect final product performance. For infant formula and premium nutrition customers, suppliers must also meet requirements for contaminants, microbiology, peroxide value, acid value, powder flowability, solubility and dispersibility, formulation compatibility, and long-term batch traceability, which results in long qualification cycles. On the cost side, the DHA oil base, wall materials, energy consumption, spray-drying yield, and capacity utilization all influence profitability. As domestic and international producers expand capacity and introduce more specifications, mid- and low-end products may face price competition. However, suppliers with high stability, low odor, good dispersibility, and infant-formula-grade qualification capabilities still have strong competitive barriers.

Downstream Demand Trends

Future demand for Algae Oil DHA Powder is expected to show a pattern of stable infant formula demand, growing maternal and children's nutrition, and expanding adult functional food applications. Infant formula will remain the core application, with milk powder companies continuing to focus on DHA source, oxidative stability, powder compatibility, and formula registration compliance. High-stability microencapsulated powders are expected to maintain strong demand. Maternal nutrition powders, children's growing-up milk powder, nutrition sachets, and solid beverages will become important incremental markets, with products placing greater emphasis on low odor, easy reconstitution, precise dosage, and compound nutrition synergy. In adult nutrition, older consumers, vegetarians, knowledge workers, and consumers focused on eye health will support the use of Algae Oil DHA Powder in tablets, granules, instant powders, functional beverages, and healthy snacks. Over the long term, Algae Oil DHA Powder will be more than a powdered form of liquid algal oil; it will become a key carrier for algal Omega-3 to enter broader food industrial applications and premium nutrition scenarios.

This report studies the global Algae Oil DHA Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Algae Oil DHA 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 Algae Oil DHA Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Algae Oil DHA Powder total production and demand, 2021-2032, (Tons)

Global Algae Oil DHA Powder total production value, 2021-2032, (USD Million)

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

Global Algae Oil DHA Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Algae Oil DHA Powder domestic production, consumption, key domestic manufacturers and share

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

Global Algae Oil DHA Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Algae Oil DHA Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Algae Oil DHA 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, Roquette, Corbion, Huison, Runke, ADM, Mara Renewables, Cabio, Solutex, Kingdomway, 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 Algae Oil DHA 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 Algae Oil DHA Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Algae Oil DHA Powder Market, Segmentation by Type:

DHA Content:

DHA Content: 10% ? 20%

DHA Content: 20% ? 30%

DHA Content: > 30%

Global Algae Oil DHA Powder Market, Segmentation by Source:

Schizochytrium

Crypthecodinium Cohnii

Others

Global Algae Oil DHA Powder Market, Segmentation by Process:

Traditional Solvent Extraction

Enzymatic Extraction

Supercritical CO2 Extraction

Global Algae Oil DHA Powder Market, Segmentation by Application:

Infant Formula

Nutritional Supplements

Food & Beverage

Others

Companies Profiled:

DSM-Firmenich

Roquette

Corbion

Huison

Runke

ADM

Mara Renewables

Cabio

Solutex

Kingdomway

Fermentalg

JC Biotech

Keyuan

Bioplus Life Sciences

Fuxing

ATK Biotech

Xinhe Biotech

Progress Biotech

Key Questions Answered:

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

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