

Global Silk Fibroin Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silk Fibroin Powder market size is expected to reach \$ 276 million by 2032, rising at a market growth of 11.2% CAGR during the forecast period (2026-2032).

In 2024, global Silk Fibroin Powder reached approximately 1,008 tons, with an average global market price of around 124.6 USD/kg.

Silk Fibroin Powder is a fine powdered material derived from natural silk fibers, typically obtained through a series of processes including degumming to remove sericin, dissolution of the remaining silk fibroin, purification, and drying. As a natural protein-based product, it retains the excellent biocompatibility, biodegradability, and moisture-retention properties of silk fibroin, with controllable particle sizes and purity levels that can be adjusted according to application requirements, making it a versatile raw material in multiple fields.

Demand for Silk Fibroin Powder is driven by the growing consumer preference for natural, safe, and high-performance ingredients in industries such as biomedicine, cosmetics, and food, as well as the expanding research and application of biodegradable materials. Business opportunities lie in developing high-purity and ultra-fine (nano-grade) products to meet the stringent requirements of biomedical and high-end cosmetic fields, exploring innovative extraction technologies to improve production efficiency and reduce costs, expanding applications in emerging areas such as tissue engineering and sustainable packaging, and strengthening the development of customized solutions tailored to specific industry needs.

This report studies the global Silk Fibroin Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silk Fibroin 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 Silk Fibroin Powder that contribute

to its increasing demand across many markets.

Highlights and key features of the study

Global Silk Fibroin Powder total production and demand, 2021-2032, (Tons)

Global Silk Fibroin Powder total production value, 2021-2032, (USD Million)

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

Global Silk Fibroin Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Silk Fibroin Powder domestic production, consumption, key domestic manufacturers and share

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

Global Silk Fibroin Powder production by Extraction Method, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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

This report profiles key players in the global Silk Fibroin 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 Advanced BioMatrix, Fibroheal, Biosynth, Cocoon Biotech, Kelisema, Seidecosa, Caresilk, Huzhou Aotesi Biochemical, Hanzhou Linran, Huzhou Xintiansi Bio-tech, 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 Silk Fibroin 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 Extraction Method, 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 Silk Fibroin Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silk Fibroin Powder Market, Segmentation by Extraction Method:

Aqueous Extraction Silk Fibroin Powder

Organic Solvent Extraction Silk Fibroin Powder

Enzymatic Hydrolysis Silk Fibroin Powder

Global Silk Fibroin Powder Market, Segmentation by Particle Size:

Micron-Grade Silk Fibroin Powder

Submicron-Grade Silk Fibroin Powder

Nano-Grade Silk Fibroin Powder

Global Silk Fibroin Powder Market, Segmentation by Purity Grade:

Industrial-Grade Silk Fibroin Powder

Food-Grade Silk Fibroin Powder

Medical-Grade Silk Fibroin Powder

Global Silk Fibroin Powder Market, Segmentation by Application:

Biomedical Silk Fibroin Powder

Cosmetics & Personal Care Silk Fibroin Powder

Food & Beverage Silk Fibroin Powder

Textile Auxiliary Silk Fibroin Powder

Others

Companies Profiled:

Advanced BioMatrix

Fibroheal

Biosynth

Cocoon Biotech

Kelisema

Seidecosa

Caresilk

Huzhou Aotesi Biochemical

Hanzhou Linran

Huzhou Xintiansi Bio-tech

Chongqing Haifan Biochemical

Suzhou Suhao Bio

Zhejiang Xingyue Biotechnology

Xi'an Sost Biotech

FZBIOTECH

Meilun Bio

Nagasuna mayu

Nantong FeiYu biological technology

Key Questions Answered:

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

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