

Global Biological Fermentation Defoamer Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Biological Fermentation Defoamer market size is expected to reach \$ 425 million by 2032, rising at a market growth of 2.4% CAGR during the forecast period (2026-2032).

Bio-fermentation defoamers are special additives used in biotechnology industries (such as the production of antibiotics, amino acids, and enzyme preparations). Their main function is to eliminate foam generated during fermentation due to aeration and stirring. They typically have extremely low surface tension, can quickly disperse and penetrate the foam film, and have no toxic side effects on microbial cells and products. They are usually resistant to high-temperature sterilization.

The upstream supply mainly relies on basic chemical raw materials and specialty surfactants, including dimethyl silicone oil, polyethers, fatty acid esters, hydrophobic silica, and various emulsifiers. The core barrier lies in the viscosity control of silicone oil and the end-group modification of polyether molecules, which determines the thermal stability and chemical inertness of the defoamer under extreme fermentation environments. The midstream stage involves the formulation development and compounding of defoamers.

The global average selling price in 2025 is estimated at approximately US\$6,890 per ton, with global consumption at approximately 50,000 tons. The industry's gross profit margin is around 25%.

The development of bio-fermentation defoamers stems from the expansion of the global bio-based economy and the pursuit of maximum production efficiency. The widespread adoption of continuous bioprocessing technologies demands defoamers with extremely

high chemical stability and long-lasting effectiveness to support continuous operation for weeks or even months. Furthermore, against the backdrop of global carbon neutrality, the fermentation industry is working to reduce wastewater treatment pressures, driving the generational replacement of traditional mineral oil-based products with highly biodegradable, low-water-toxicity green bio-based defoamers.

This report studies the global Biological Fermentation Defoamer production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Biological Fermentation Defoamer 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 Biological Fermentation Defoamer that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Biological Fermentation Defoamer total production and demand, 2021-2032, (Kiloton)

Global Biological Fermentation Defoamer total production value, 2021-2032, (USD Million)

Global Biological Fermentation Defoamer production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton), (based on production site)

Global Biological Fermentation Defoamer consumption by region & country, CAGR, 2021-2032 & (Kiloton)

U.S. VS China: Biological Fermentation Defoamer domestic production, consumption, key domestic manufacturers and share

Global Biological Fermentation Defoamer production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kiloton)

Global Biological Fermentation Defoamer production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

Global Biological Fermentation Defoamer production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kiloton)

This report profiles key players in the global Biological Fermentation Defoamer 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 Dow, PMC Group, M?nzing Chemie, Dupont, Momentive, Elkem, Wacker Chemie, Shin-Etsu Chemical, PennWhite, KCC SILICONE, 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 Biological Fermentation Defoamer market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kiloton) and average price (US\$/Ton) 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 Biological Fermentation Defoamer Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Biological Fermentation Defoamer Market, Segmentation by Type:

Silicon-based

Polyether-based

Compound Oils

Global Biological Fermentation Defoamer Market, Segmentation by Grade:

Pharmaceutical Grade

Food Grade

Industrial Grade

Global Biological Fermentation Defoamer Market, Segmentation by Physical Form:

Emulsion Type

Oil Type

Other

Global Biological Fermentation Defoamer Market, Segmentation by Application:

Pharmaceutical

Food

Industrial

Other

Companies Profiled:

Dow

PMC Group

M?nzing Chemie

Dupont

Momentive

Elkem

Wacker Chemie

Shin-Etsu Chemical

PennWhite

KCC SILICONE

Struktol

Blackburn Chemicals

Accepta

Ningbo Runhe High-Tech Materials

Key Questions Answered:

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

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