

Global Biological Fermentation Defoamer Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/G0CA22ABCE65EN.html>

Date: April 2026

Pages: 125

Price: US\$ 3,480.00 (Single User License)

ID: G0CA22ABCE65EN

Abstracts

According to our (Global Info Research) latest study, the global Biological Fermentation Defoamer market size was valued at US\$ 355 million in 2025 and is forecast to a readjusted size of US\$ 425 million by 2032 with a CAGR of 2.4% during review period.

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 is a detailed and comprehensive analysis for global Biological Fermentation Defoamer market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Biological Fermentation Defoamer market size and forecasts, in consumption value (\$ Million), sales quantity (Kiloton), and average selling prices (US\$/Ton), 2021-2032

Global Biological Fermentation Defoamer market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kiloton), and average selling prices (US\$/Ton), 2021-2032

Global Biological Fermentation Defoamer market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kiloton), and average selling prices (US\$/Ton), 2021-2032

Global Biological Fermentation Defoamer market shares of main players, shipments in revenue (\$ Million), sales quantity (Kiloton), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Biological Fermentation Defoamer

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Biological Fermentation Defoamer market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Biological Fermentation Defoamer market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Silicon-based

Polyether-based

Compound Oils

Market segment by Grade

Pharmaceutical Grade

Food Grade

Industrial Grade

Market segment by Physical Form

Emulsion Type

Oil Type

Other

Market segment by Application

Pharmaceutical

Food

Industrial

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Biological Fermentation Defoamer product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Biological Fermentation Defoamer, with price, sales quantity, revenue, and global market share of Biological Fermentation Defoamer from 2021 to 2026.

Chapter 3, the Biological Fermentation Defoamer competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Biological Fermentation Defoamer breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Biological Fermentation Defoamer market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Biological Fermentation Defoamer.

Chapter 14 and 15, to describe Biological Fermentation Defoamer sales channel, distributors, customers, research findings and conclusion.

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