

Global Bio-deinking Enzyme Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Bio-deinking Enzyme market size was valued at US\$ 428 million in 2025 and is forecast to a readjusted size of US\$ 651 million by 2032 with a CAGR of 6.2% during review period.

In 2025, global Bio-deinking Enzyme production reached approximately 51.5 k tons, with an average global market price of around US\$8,078 per ton. Bio-deinking enzyme is made by modern biotechnology, with a variety of highly targeted and efficient bio-enzymes. It is used in combination with special additives for enzyme activation and is suitable for deinking mixed office waste paper, newspapers and magazines, etc. It can significantly improve the deposition of stickies in the papermaking process.

Biological deinking enzymes are used in recycled pulp operations to improve deinking performance, reduce chemical oxygen demand and water intensity, and to work alongside flotation and washing stages to enhance finished-sheet appearance and operational reliability. Current technical directions emphasise blended enzyme formulations, online dosing and tighter process control, and improved adaptability to non-contact printing and mixed feedstocks to expand applicability. Opportunities stem from higher collection and recycling rates, stronger regulatory and procurement focus on recycling quality and emissions, and demand for integrated sustainability solutions from chemical suppliers and mills. Constraints include variable deinkability caused by diverse printing technologies and additives, the cost and operational stability of enzyme products under industrial conditions, compatibility issues with existing chemical deinking regimes and wastewater treatment systems, and incomplete testing and certification frameworks. Accelerating adoption will require collaborative mill-supplier trials, robust operational validation, standardised monitoring and certification, and clearer regulatory

and procurement incentives documented in corporate disclosures and policy reports.

This report is a detailed and comprehensive analysis for global Bio-deinking Enzyme 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 Bio-deinking Enzyme market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-deinking Enzyme market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-deinking Enzyme market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Bio-deinking Enzyme market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 Bio-deinking Enzyme
- 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 Bio-deinking Enzyme 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 Novozymes, DuPont, AB Enzymes, Buckman, Advanced Enzyme Technologies, Enzymatic Deinking Technologies, Noor Enzymes,

APC, Shandong Lonct Enzymes, Guangdong Vtr Bio-Tech, etc.

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

Market Segmentation

Bio-deinking Enzyme 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

Liquid Deinking Enzyme

Solid Deinking Enzyme

Market segment by Composition

Cellulase

Lipase

Xylanase

Others

Market segment by Treatment Object

MOW

ONP

Others

Market segment by Application

Printing Paper

Packaging Paper

Others

Major players covered

Novozymes

DuPont

AB Enzymes

Buckman

Advanced Enzyme Technologies

Enzymatic Deinking Technologies

Noor Enzymes

APC

Shandong Lonct Enzymes

Guangdong Vtr Bio-Tech

Qingdao Vland Biotech

CJ BIO

Leveking Biotech

Sukehan(Weifang)Bio-Engineering

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 Bio-deinking Enzyme product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Bio-deinking Enzyme, with price, sales quantity, revenue, and global market share of Bio-deinking Enzyme from 2021 to 2026.

Chapter 3, the Bio-deinking Enzyme competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Bio-deinking Enzyme 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 Bio-deinking Enzyme 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 Bio-deinking Enzyme.

Chapter 14 and 15, to describe Bio-deinking Enzyme sales channel, distributors,

customers, research findings and conclusion.

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