

Global Waste Paper 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 Waste Paper Deinking Enzyme market size was valued at US\$ 421 million in 2025 and is forecast to a readjusted size of US\$ 635 million by 2032 with a CAGR of 6.1% during review period.

In 2025, global Waste Paper Deinking Enzyme production reached approximately 50 k tons, with an average global market price of around US\$8,100 per ton. Waste paper deinking enzymes are eco-friendly, biodegradable biocatalysts (like cellulases, hemicellulases, lipases, and pectinases) used to break down the fiber-ink bond during paper recycling. They detach ink particles from fibers by hydrolyzing the surface, improving pulp brightness and yield while reducing chemical usage and water pollution.

Enzymes for deinking waste paper are attracting attention within recycled pulp production and process optimisation, as mills use enzyme treatment to increase deinking efficiency, reduce chemical oxygen demand and water consumption, and to complement flotation and washing stages in order to improve finished paper appearance and operational stability. Recent directions emphasise blended enzyme formulations and tighter process control, with work to adapt treatments to non-contact printing and mixed feedstocks expanding potential applications. Opportunities arise from regulatory pressure on recycling quality and emissions, improving feedstock collection rates, and industry partnerships that enable customised services and mill-level trials. Constraints include the variable deinkability created by diverse printing methods and additives, enzyme cost and sensitivity to process fluctuations, compatibility issues with conventional chemical deinking regimes, and gaps in wastewater treatment capacity and standardised testing protocols. Broader uptake will depend on collaborative pilot programmes, robust operational validation, strengthened testing and certification

frameworks, and clearer regulatory and procurement incentives to support adoption. To build buyer confidence and enable scale, suppliers and mills must co-develop dosing strategies and monitoring protocols, document long-term performance under commercial conditions, share operational data, and collaborate with regulators and testing bodies to translate technical outcomes into procurement specifications and compliance reporting.

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

Global Waste Paper 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 Waste Paper 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 Waste Paper 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 Waste Paper 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 Waste Paper 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

Waste Paper 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

Leveling 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 Waste Paper Deinking Enzyme product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Waste Paper Deinking Enzyme, with price, sales quantity, revenue, and global market share of Waste Paper Deinking Enzyme from 2021 to 2026.

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

Chapter 4, the Waste Paper 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 Waste Paper 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 Waste Paper Deinking Enzyme.

Chapter 14 and 15, to describe Waste Paper Deinking Enzyme sales channel, distributors, customers, research findings and conclusion.

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