

Global Immobilized Enzyme Carrier Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Immobilized Enzyme Carrier market size is expected to reach \$ 1158 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Immobilized enzyme carriers are materials or supports used to immobilize enzymes in specific locations, allowing the enzyme to remain physically isolated from the reaction mixture while catalyzing the reaction. These carriers can be made from natural or synthetic materials, providing a stable environment that maintains enzyme activity, improves enzyme reusability, and facilitates separation from the product. Immobilized enzyme carriers are widely used in industrial biotechnology, pharmaceuticals, food processing, and environmental fields because they can improve process efficiency, reduce costs, and allow for the continuous or repeated use of enzymes under controlled conditions. The industrial chain of immobilized enzyme carriers includes upstream polymer materials, inorganic carriers, cross-linking agents and surface modification materials; midstream covers carrier synthesis, surface functionalization, enzyme immobilization and performance testing; downstream applications involve biopharmaceutical production, food and beverage processing, chemical synthesis and wastewater treatment, and are supported by process optimization, technical services and customized solutions. In 2025, the global production of immobilized enzyme carriers was approximately 778,947 kg, with a global average market price of approximately US\$950 per kg. The gross profit margins of major industry players ranged from 55% to 75%. In 2025, the global production capacity of immobilized enzyme carriers was approximately 1,039 tons.

The immobilized enzyme carrier market is driven by the growing demand for efficient, sustainable, and cost-effective biocatalysis across multiple industries. Compared with free enzymes, immobilized systems offer superior stability, reusability, and compatibility with continuous production processes, reducing overall operational costs. Increasing

adoption in pharmaceuticals and food processing is supported by stricter quality control requirements and the need for high selectivity reactions. Advances in material science and surface modification technologies are enabling higher enzyme loading and improved catalytic performance. Additionally, environmental applications such as wastewater treatment and green chemistry are expanding the market scope. Overall, the immobilized enzyme carrier market is expected to maintain steady growth, supported by industrial biotechnology expansion and the global push toward sustainable manufacturing.

This report studies the global Immobilized Enzyme Carrier production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Immobilized Enzyme Carrier 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 Immobilized Enzyme Carrier that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Immobilized Enzyme Carrier total production and demand, 2021-2032, (kg)

Global Immobilized Enzyme Carrier total production value, 2021-2032, (USD Million)

Global Immobilized Enzyme Carrier production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Immobilized Enzyme Carrier consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Immobilized Enzyme Carrier domestic production, consumption, key domestic manufacturers and share

Global Immobilized Enzyme Carrier production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Immobilized Enzyme Carrier production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Immobilized Enzyme Carrier production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Immobilized Enzyme Carrier 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 Resindion SRL(Mitsubishi), The Resin Network, Sunresin, Ecolab Purolite, Biocatalysts, Tianjin Nankai Hecheng Technology Co., Ltd., ChiralVision, Cascade Bio, DuPont, Ecovyst, 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 Immobilized Enzyme Carrier market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) 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 Immobilized Enzyme Carrier Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Immobilized Enzyme Carrier Market, Segmentation by Type:

Inorganic Carrier Material

Polymer Materials

Composite Materials

Global Immobilized Enzyme Carrier Market, Segmentation by Immobilization Method:

Physical Adsorption Carrier

Covalent Bonding Carrier

Entrapment / Encapsulation Carrier

Cross-Linked Enzyme Carrier

Global Immobilized Enzyme Carrier Market, Segmentation by Carrier Structure:

Porous Bead Carrier

Membrane-based Carrier

Nanoparticle Carrier

Fiber & Sponge Carrier

Global Immobilized Enzyme Carrier Market, Segmentation by Application:

Industrial Biocatalysis

Pharmaceutical & Fine Chemical Synthesis

Food & Beverage Processing

Other

Companies Profiled:

Resindion SRL(Mitsubishi)

The Resin Network

Sunresin

Ecolab Purolite

Biocatalysts

Tianjin Nankai Hecheng Technology Co., Ltd.

ChiralVision

Cascade Bio

DuPont

Ecovyst

Key Questions Answered:

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

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