

# Global 3D Single Use Bioprocess Bags 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 3D Single Use Bioprocess Bags market size was valued at US\$ 846 million in 2025 and is forecast to a readjusted size of US\$ 1115 million by 2032 with a CAGR of 4.2% during review period.

In 2025, global 3D Single Use Bioprocess Bags production reached approximately 2,500 k units with an average global market price of around US\$ 330 per unit, and a gross profit margin of approximately 10%-30%. 3D single use bioprocess bags are innovative storage and transfer containers specifically designed for bioprocess applications. These bags utilize high-strength, low-permeability film materials such as polyethylene or polyvinyl chloride to ensure the sterility, integrity, and stability of products during bioprocessing. The 3D design offers greater capacity and flexibility for mixing, storing, and transferring bioprocess media, such as cell culture media, fermentation broths, buffers, and harvests. Additionally, these bags typically come with standardized connection ports and valves for easy integration with bioprocess equipment, enabling sterile connections and fluid transfer. In biopharmaceutical manufacturing, cell therapy, and biotechnology, 3D single-use bioprocess bags are essential tools for reducing cross-contamination, enhancing production efficiency, and optimizing cost-effectiveness.

The 3D single-use bioprocess bag market is expanding as biopharma manufacturers prioritize flexible capacity, faster changeover, and reduced cleaning validation through single-use fluid management. Demand is supported by biologics scale-up, vaccine and mRNA manufacturing, and the growth of CDMOs operating multi-product facilities. Buyers focus on low extractables and leachables, robust weld consistency, reliable aseptic connectors, and strong supply assurance, because bag integrity failures can

cause costly batch loss. Trends include higher-volume 3D bags, improved multilayer films with better barrier properties, standardized connector interfaces, and more comprehensive quality documentation for audits. Constraints include resin and film supply volatility, requalification workload from material changes, and stringent particulate and integrity risk management. Overall, growth is strong, with value concentrating in validated material systems, consistent manufacturing quality, and resilient, redundant supply chains.

This report is a detailed and comprehensive analysis for global 3D Single Use Bioprocess Bags 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 3D Single Use Bioprocess Bags market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Single Use Bioprocess Bags market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Single Use Bioprocess Bags market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2021-2032

Global 3D Single Use Bioprocess Bags market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 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 3D Single Use Bioprocess Bags

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 3D Single Use Bioprocess Bags 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 Entegris, Thermo Fisher, Avantor, Sartorius, Cytiva, Saint-Gobain Life Sciences, K?hner, CellBios, Meissner, Cobetter, etc.

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

### **Market Segmentation**

3D Single Use Bioprocess Bags 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

?100L

100-500L

?500L

#### Market segment by Structure

Single Layer

Multi Layer

#### Market segment by Action

Storage

Transportation

#### Market segment by Application

Biopharmaceutical

Vaccine Manufacturing

Others

#### Major players covered

Entegris

Thermo Fisher

Avantor

Sartorius

Cytiva

Saint-Gobain Life Sciences

K?hner

CellBios

Meissner

Cobetter

Nupore

Vonco

TECNIC

CLARIPURE

D&D Filtration

Zhejiang JYSS Bio-Engineering

Shanghai Lepure Biotech

Dongfulong Life Technology

Shanghai Duoning Biotechnology

Truking Technology

Applitech Biological Technology

Shanghai Baigaole Biotechnology

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 3D Single Use Bioprocess Bags product scope, market overview,

*Global 3D Single Use Bioprocess Bags Market 2026 by Manufacturers, Regions, Type and Application, Forecast to...*

market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of 3D Single Use Bioprocess Bags, with price, sales quantity, revenue, and global market share of 3D Single Use Bioprocess Bags from 2021 to 2026.

Chapter 3, the 3D Single Use Bioprocess Bags competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the 3D Single Use Bioprocess Bags 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 3D Single Use Bioprocess Bags 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 3D Single Use Bioprocess Bags.

Chapter 14 and 15, to describe 3D Single Use Bioprocess Bags sales channel, distributors, customers, research findings and conclusion.

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