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Global PVDF for Li-Ion Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PVDF for Li-Ion Batteries market size is expected to reach $ 9905 million by 2032, rising at a market growth of 27.0% CAGR during the forecast period (2026-2032).

PVDF for Li-Ion Batteries refers to high-purity polyvinylidene fluoride (PVDF) material specifically designed for lithium-ion battery manufacturing. It is primarily used as an electrode binder to firmly bond positive electrode active materials (such as ternary materials and lithium iron phosphate) to conductive agents and adhere them to the current collector surface. Compared to ordinary industrial-grade PVDF, lithium-ion battery-grade PVDF has higher requirements for molecular weight distribution, purity, moisture content, and solubility to ensure electrode structural stability, cycle performance, and electrochemical consistency. This material is typically dissolved in NMP (N-methylpyrrolidone) to form a slurry and is one of the key functional materials in the lithium-ion battery positive electrode manufacturing process. In 2025, the consumption of PVDF resin for lithium-ion batteries was approximately 116,795 tons.

PVDF for lithium-ion batteries is a key functional material in lithium-ion battery manufacturing, primarily used as a positive electrode binder. It firmly bonds the positive electrode active material and conductive agent to the surface of the aluminum foil current collector, thus ensuring electrode structural stability and cycle life. Compared to ordinary industrial-grade PVDF, lithium-ion grade products have higher requirements in terms of molecular weight distribution, purity control, moisture content, and solubility to meet the stringent standards for electrochemical performance consistency in power batteries and energy storage batteries. With the rapid development of the global new energy vehicle and energy storage industries, the market size of lithium-ion grade PVDF continues to expand.

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In recent years, the global installed capacity of power batteries has maintained rapid growth, and the penetration rate of new energy vehicles has continued to increase, driving a simultaneous increase in demand for positive electrode materials and binders. Especially against the backdrop of the advancement of high-nickel ternary materials and high-energy-density battery technologies, higher requirements are placed on the adhesion strength, chemical stability, and electrolyte resistance of binders, making PVDF for lithium-ion batteries one of the key materials. At the same time, the rapid expansion of the energy storage battery market brings new incremental demand to the industry.

From a product structure perspective, PVDF for lithium batteries is mainly used in the cathode binder field, occupying the vast majority of the market share; the demand for PVDF for separator coating is also gradually increasing. By molecular weight, medium and high molecular weight products are the mainstream application type, with high molecular weight products showing an increasing proportion of application in high-nickel cathode systems. As battery companies increase their requirements for performance consistency and safety, products are upgrading towards higher purity and higher stability, driving the industry's technological barriers to increase continuously.

In terms of the industry chain, the upstream consists of fluorochemical raw material and monomer suppliers, the midstream consists of PVDF polymerization production enterprises, and the downstream consists of battery manufacturers and cathode material manufacturers. The industry exhibits high technological and capital barriers, with companies possessing large-scale production capabilities and stable quality control systems holding an advantage in market competition. In terms of regional markets, Asia, especially China, is the world's largest lithium battery production base, accounting for the majority of consumption; demand growth in Europe and North America is significant against the backdrop of localized battery industry chain development.

Looking ahead, the global PVDF market for lithium batteries will be driven by three core factors: first, the continued growth in demand for power batteries brought about by the increasing volume of new energy vehicles; second, the rapid expansion of the energy storage market; and third, the technological upgrade of high-nickel and high-energy-density batteries. Industry growth will increasingly come from product structure upgrades and increased unit value.

This report studies the global PVDF for Li-Ion Batteries production, demand, key manufacturers, and key regions.

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This report is a detailed and comprehensive analysis of the world market for PVDF for Li-Ion Batteries 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 PVDF for Li-Ion Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global PVDF for Li-Ion Batteries total production and demand, 2021-2032, (Ton)
Global PVDF for Li-Ion Batteries total production value, 2021-2032, (USD Million)
Global PVDF for Li-Ion Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Ton), (based on production site)
Global PVDF for Li-Ion Batteries consumption by region & country, CAGR, 2021-2032 & (Ton)
U.S. VS China: PVDF for Li-Ion Batteries domestic production, consumption, key domestic manufacturers and share
Global PVDF for Li-Ion Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Ton)
Global PVDF for Li-Ion Batteries production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Ton)
Global PVDF for Li-Ion Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Ton)

This report profiles key players in the global PVDF for Li-Ion Batteries 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 Arkema, Syensqo, Zhejiang Juhua, Zhejiang Fluorine, Shanghai PTL New Energy Technology, Dongyue Group, Kureha, Shandong Deyi, Huayi 3F New Materials, Sinochem Lantian, 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 PVDF for Li-Ion Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Ton) and average price (US$/Ton) by

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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 PVDF for Li-Ion Batteries Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global PVDF for Li-Ion Batteries Market, Segmentation by Type:

- Emulsion Polymerization
- Suspension Polymerization

Global PVDF for Li-Ion Batteries Market, Segmentation by Molecular Mass:

- High Molecular Mass
- Medium Molecular Mass
- Low Molecular Mass

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Global PVDF for Li-Ion Batteries Market, Segmentation by Battery:

For TLB

For LFP

Global PVDF for Li-Ion Batteries Market, Segmentation by Application:

Adhesives

Diaphragm Coatings

Companies Profiled:

Arkema

Syensqo

Zhejiang Juhua

Zhejiang Fluorine

Shanghai PTL New Energy Technology

Dongyue Group

Kureha

Shandong Deyi

Huayi 3F New Materials

Sinochem Lantian

Lecron Industrial

Zhejiang Yonghe Refrigerant

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Key Questions Answered:

1. How big is the global PVDF for Li-Ion Batteries market?
2. What is the demand of the global PVDF for Li-Ion Batteries market?
3. What is the year over year growth of the global PVDF for Li-Ion Batteries market?
4. What is the production and production value of the global PVDF for Li-Ion Batteries market?
5. Who are the key producers in the global PVDF for Li-Ion Batteries market?
6. What are the growth factors driving the market demand?

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