

# Global Lithium Battery PTFE-based Binders Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium Battery PTFE-based Binders market size is expected to reach \$ 1450 million by 2032, rising at a market growth of 7.4% CAGR during the forecast period (2026-2032).

Lithium battery PTFE-based binders are polymer materials made from polytetrafluoroethylene (PTFE) used to bind active materials and conductive agents in lithium-ion battery electrodes, especially in lithium metal, lithium-sulfur, and high-nickel cathode systems. PTFE-based binders provide strong mechanical cohesion, exceptional chemical stability, and resistance to heat and solvents, enabling the formation of robust electrode structures that can withstand repeated cycling and volume changes. Unlike traditional PVDF binders, PTFE's fibrillated structure forms a durable, web-like network that enhances electrode strength, improves safety, and supports high-energy-density designs. These binders are increasingly used in next-generation lithium batteries where enhanced stability, low reactivity, and high mechanical integrity are critical. Currently, approximately 30,000 tons of PTFE material are used in lithium batteries annually, with a price of \$35-45 k per ton.

The upstream of lithium battery PTFE-based binders primarily involves the production of fluorochemical raw materials, such as fluorspar, hydrofluoric acid, and tetrafluoroethylene (TFE) monomers, which are polymerized into PTFE by specialty chemical manufacturers. This stage also includes suppliers of additives and dispersions needed to produce fibrillated PTFE suitable for electrode applications. The downstream segment includes lithium-ion battery manufacturers and electrode producers that use PTFE-based binders to formulate high-strength anodes and cathodes—especially for lithium metal, lithium-sulfur, solid-state, and high-nickel batteries. Further downstream, the binders support applications in electric vehicles, energy-storage systems, consumer

electronics, and industrial batteries, where robust electrode integrity and high energy density are required.

This report studies the global Lithium Battery PTFE-based Binders production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Battery PTFE-based Binders 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 Lithium Battery PTFE-based Binders that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Lithium Battery PTFE-based Binders total production and demand, 2021-2032, (Tons)

Global Lithium Battery PTFE-based Binders total production value, 2021-2032, (USD Million)

Global Lithium Battery PTFE-based Binders production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Lithium Battery PTFE-based Binders consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Lithium Battery PTFE-based Binders domestic production, consumption, key domestic manufacturers and share

Global Lithium Battery PTFE-based Binders production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Lithium Battery PTFE-based Binders production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Lithium Battery PTFE-based Binders production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Lithium Battery PTFE-based Binders 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 Chemours (USA), 3M (USA), Daikin Chemical (Japan), AGC Chemical (Japan), Solvay (Belgium), Kureha Chemical (Japan), Shandong Dongyue?China?, Zhejiang Juhua?China?, Haohua Chemical?China?, Changshu 3f?China?, 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 Lithium Battery PTFE-based Binders market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Lithium Battery PTFE-based Binders Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Lithium Battery PTFE-based Binders Market, Segmentation by Type:

Fine Powder

Dispersion

## Global Lithium Battery PTFE-based Binders Market, Segmentation by Application Performance:

Dry Electrodes

Wet Electrodes

## Global Lithium Battery PTFE-based Binders Market, Segmentation by Application:

Liquid Battery

Semi-solid Battery

Solid-state Battery

## Companies Profiled:

Chemours (USA)

3M (USA)

Daikin Chemical (Japan)

AGC Chemical (Japan)

Solvay (Belgium)

Kureha Chemical (Japan)

Shandong Dongyue?China?

Zhejiang Juhua?China?

Haohua Chemical?China?

Changshu 3f?China?

**Key Questions Answered:**

1. How big is the global Lithium Battery PTFE-based Binders market?
2. What is the demand of the global Lithium Battery PTFE-based Binders market?
3. What is the year over year growth of the global Lithium Battery PTFE-based Binders market?
4. What is the production and production value of the global Lithium Battery PTFE-based Binders market?
5. Who are the key producers in the global Lithium Battery PTFE-based Binders market?
6. What are the growth factors driving the market demand?

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