

Global PVDF Binder for Battery Market Growth 2024-2030

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Abstracts

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According to our LPI (LP Information) latest study, the global PVDF Binder for Battery market size was valued at US\$ 342.4 million in 2023. With growing demand in downstream market, the PVDF Binder for Battery is forecast to a readjusted size of US\$ 1739.9 million by 2030 with a CAGR of 26.1% during review period.

The research report highlights the growth potential of the global PVDF Binder for Battery market. PVDF Binder for Battery are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of PVDF Binder for Battery. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the PVDF Binder for Battery market.

Binder is one of the important components of lithium ion battery pole piece. It is a polymer compound that adheres the active material and conductive agent in the electrode piece to the electrode current collector. It can enhance the contact between the active material, the conductive agent and the current collector. The performance and the role of stabilizing the structure of the pole piece are additional materials with high technical content in lithium-ion battery materials. Studies have shown that although the amount of binder used in the electrode sheet is small, the performance of the binder directly affects the capacity, life and safety of the battery. PVDF is currently the most commonly used oily binder in the lithium-ion battery industry. It is a non-polar chain-packed polymer binder. Its outstanding features are strong oxidation-reduction resistance, good thermal stability, and easy to disperse, but it needs to use N-

methylpyrrolidone (NMP) as a solvent. The volatilization temperature is high, there is a certain degree of environmental pollution, and the price is expensive. Obvious shortcomings include relatively high Young's modulus, between 1-4 GPa, the flexibility of the pole piece is not good enough; after PVDF absorbs water, the molecular weight decreases and the viscosity becomes worse, so the humidity requirements of the environment are relatively high; for ions and electrons Insulation, a certain degree of swelling in the electrolyte, and exothermic reaction with metallic lithium and LixC6 at higher temperatures, which is detrimental to the safety of the battery.

Global PVDF Binder for Battery key players include Kureha, Solvay, Arkema, etc. Global top three manufacturers hold a share over 70%.

China is the largest consumption market, with a share about 61%, it is followed by Japan, which has a share about 15 percent.

In terms of product, Suspension Polymerization is the largest segment, with a share over 55%. And in terms of application, the largest application is Power Battery, followed by Digital Battery, etc.

Key Features:

The report on PVDF Binder for Battery market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the PVDF Binder for Battery market. It may include historical data, market segmentation by Type (e.g., Emulsion Polymerization, Suspension Polymerization), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the PVDF Binder for Battery market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the PVDF Binder for Battery market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the PVDF Binder for Battery industry. This include advancements in PVDF Binder for Battery technology, PVDF Binder for Battery new entrants, PVDF Binder for Battery new investment, and other innovations that are shaping the future of PVDF Binder for Battery.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the PVDF Binder for Battery market. It includes factors influencing customer ' purchasing decisions, preferences for PVDF Binder for Battery product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the PVDF Binder for Battery market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting PVDF Binder for Battery market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the PVDF Binder for Battery market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the PVDF Binder for Battery industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the PVDF Binder for Battery market.

Market Segmentation:

PVDF Binder for Battery market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Emulsion Polymerization

Suspension Polymerization

Segmentation by application

Energy Storage Battery

Digital Battery

Power Battery

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Kureha

Solvay

Arkema

Sino-Fluorine

Shanghai Huayi 3F New Materials

Huaxiashenzhou

Sinochem

Key Questions Addressed in this Report

What is the 10-year outlook for the global PVDF Binder for Battery market?

What factors are driving PVDF Binder for Battery market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PVDF Binder for Battery market opportunities vary by end market size?

How does PVDF Binder for Battery break out type, application?

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