

Global PVDF Binder for Battery Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global PVDF Binder for Battery market size was valued at USD 360.1 million in 2023 and is forecast to a readjusted size of USD 1634.1 million by 2030 with a CAGR of 24.1% during review period.

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 Li_xC_6 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.

The Global Info Research report includes an overview of the development of the PVDF Binder for Battery industry chain, the market status of Energy Storage Battery (Emulsion Polymerization, Suspension Polymerization), Digital Battery (Emulsion Polymerization, Suspension Polymerization), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of PVDF Binder for Battery.

Regionally, the report analyzes the PVDF Binder for Battery markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global PVDF Binder for Battery market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the PVDF Binder for Battery market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the PVDF Binder for Battery industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (Ton), revenue generated, and market share of different by Type (e.g., Emulsion Polymerization, Suspension Polymerization).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the PVDF Binder for Battery market.

Regional Analysis: The report involves examining the PVDF Binder for Battery market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the PVDF Binder for Battery market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to PVDF Binder for Battery:

Company Analysis: Report covers individual PVDF Binder for Battery manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards PVDF Binder for Battery. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Energy Storage Battery, Digital Battery).

Technology Analysis: Report covers specific technologies relevant to PVDF Binder for Battery. It assesses the current state, advancements, and potential future developments in PVDF Binder for Battery areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the PVDF Binder for Battery market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

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.

Market segment by Type

Emulsion Polymerization

Suspension Polymerization

Market segment by Application

Energy Storage Battery

Digital Battery

Power Battery

Others

Major players covered

Kureha

Solvay

Arkema

Sino-Fluorine

Shanghai Huayi 3F New Materials

Huaxiashenzhou

Sinochem

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 PVDF Binder for Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PVDF Binder for Battery, with price, sales, revenue and global market share of PVDF Binder for Battery from 2019 to 2024.

Chapter 3, the PVDF Binder for Battery competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PVDF Binder for Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and PVDF Binder for Battery market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 PVDF Binder for Battery.

Chapter 14 and 15, to describe PVDF Binder for Battery sales channel, distributors, customers, research findings and conclusion.

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