

Global PVDF Binders for Batteries Market Growth 2023-2029

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Abstracts

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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.

LPI (LP Information)' newest research report, the "PVDF Binders for Batteries Industry Forecast" looks at past sales and reviews total world PVDF Binders for Batteries sales in 2022, providing a comprehensive analysis by region and market sector of projected PVDF Binders for Batteries sales for 2023 through 2029. With PVDF Binders for

Batteries sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PVDF Binders for Batteries industry.

This Insight Report provides a comprehensive analysis of the global PVDF Binders for Batteries landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PVDF Binders for Batteries portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PVDF Binders for Batteries market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PVDF Binders for Batteries and breaks down the forecast by type, by application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PVDF Binders for Batteries.

The global PVDF Binders for Batteries market size is projected to grow from US\$ 342.4 million in 2022 to US\$ 427.3 million in 2029; it is expected to grow at a CAGR of 427.3 from 2023 to 2029.

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 23 perc

This report presents a comprehensive overview, market shares, and growth opportunities of PVDF Binders for Batteries market by product type, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by type

Emulsion Polymerization

Suspension Polymerization

Segmentation by application

Power Battery

Digital Battery

Energy Storage 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.

Solvay

Kureha

Arkema

Dongyue Group

Shanghai 3F

Key Questions Addressed in this Report

What is the 10-year outlook for the global PVDF Binders for Batteries market?

What factors are driving PVDF Binders for Batteries market growth, globally and by region?

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

How do PVDF Binders for Batteries market opportunities vary by end market size?

How does PVDF Binders for Batteries break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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