

Global Battery Binder Market Size study, by Battery Type (Lead Acid, Nickel Cadmium, Lithium-ion, Others), by Material (Polyvinylidene Fluoride, Carboxymethyl Cellulose, Polymethyl Methacrylate, Styrene-butadiene Copolymer, Others) and Regional Forecasts 2022-2032

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Abstracts

The Global Battery Binder Market is valued approximately at USD 3.78 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 8.01% over the forecast period 2024-2032. Battery binders are essential components in lithium-ion batteries, ensuring the cohesion and adhesion of active materials within the electrode structure. These binders play a critical role in maintaining the structural integrity, stability, and overall performance of the battery, making them indispensable in the manufacturing of rechargeable batteries used in various applications, including electric vehicles, portable electronics, and energy storage systems. Ongoing research and development efforts aimed at improving binder formulations and exploring alternative materials are expected to drive market growth during the forecast period 2024-2032.

The increasing demand for electric vehicles (EVs) significantly drives the growth of the battery binder market. As EV manufacturers strive to improve driving range and reduce charging times, the need for higher-capacity battery cells that rely on optimized binders for stability and durability under increased stress becomes paramount. Advancements in next-generation batteries, characterized by improved multifunctional binders with enhanced properties such as better adhesion, mechanical strength, and thermal stability, further fuel market expansion. Additionally, global trends in energy storage and the adoption of power tariffs contribute to the rising demand for battery binders. However, the battery binder market faces challenges related to the affinity of binders to

liquid electrolytes, which can hinder market growth. The interaction between binders and liquid electrolytes is crucial for the performance of lithium-ion batteries, and any adverse effects can impact the overall efficiency and longevity of the batteries.

Key regions considered for the global battery binder market study include North America, Europe, Asia Pacific, Latin America, and Middle East & Africa. In 2023, Asia Pacific dominated the market, driven by China's leading role in lithium-ion battery production, propelled by the growing demand for EVs and renewable energy storage systems. The region's robust infrastructure and technological advancements further support market growth. North America expected to grow at a fastest rate during the forecast period due to their established automotive industries and increasing focus on sustainable energy solutions.

The major players included in the report are:

Arkema

The Lubrizol Corporation

BASF SE

Solvay S.A.

Daikin Industries, Ltd.

Zeon Corporation

Targray

I.S.T Corporation

Synthomer PLC

Trinseo

3M Company

Ashland Inc.

Dow Chemical Company

Kureha Corporation

Showa Denko K.K.

The detailed segments and sub-segment of the market are explained below:

By Battery Type:

Lead Acid

Nickel Cadmium

Lithium-ion

Others

By Material:

Polyvinylidene Fluoride (PVDF)

Carboxymethyl Cellulose (CMC)

Polymethyl Methacrylate (PMMA)

Styrene-butadiene Copolymer (SBR)

Others

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Rest of Latin America

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

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