

Global Battery Electrode Delamination Solvent Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Battery Electrode Delamination Solvent market size was valued at US\$ 37.04 million in 2025 and is forecast to a readjusted size of US\$ 132 million by 2032 with a CAGR of 19.0% during review period.

Battery electrode delamination solvent refers to functional chemical solvents used in the recycling and pretreatment of spent lithium ion battery cathodes, anodes, and electrode production scrap. Its core function is to dissolve, swell, or weaken binder systems such as PVDF, SBR, CMC, and PAA, enabling active materials, conductive additives, and binder residues to separate from aluminum or copper current collectors. The product scope mainly covers NMP based polar solvents, DMSO based solvents, DMI based high polarity solvents, bio based alternative solvents, aqueous assisted delamination systems, and blended solvent formulations. Key technical requirements include strong binder dissolution capability, high delamination efficiency, low corrosion to current collectors, limited impurity introduction, solvent recyclability, process safety, environmental compliance, and competitive treatment cost per unit of electrode material. The main applications include lithium ion battery recycling, cathode and anode scrap recovery, direct regeneration pretreatment, current collector recovery, and front end black mass preparation. In 2025, the global battery electrode delamination solvent industry had an average gross margin of 35.00%, an industry average price of USD 3800 per metric ton.

Battery electrode delamination solvent is a functional chemical product positioned in the pretreatment stage of lithium ion battery recycling. Its industry logic is different from the broad NMP solvent market, because demand is linked to the separation of electrode

active materials from copper and aluminum current collectors. The upstream segment includes polar solvent raw materials, bio based solvent intermediates, purification chemicals, and functional additives. The midstream segment covers solvent refining, blending, customized formulation, closed loop recovery, and process adaptation. The downstream segment includes battery recyclers, electrode scrap processors, direct regeneration technology operators, and black mass pretreatment facilities. As manufacturing scrap and end of life battery volumes increase, the product is moving from laboratory validation toward pilot and industrial adoption. The competitive landscape is still forming. Most participants are not dedicated producers of a standalone delamination solvent product, but manufacturers of polar solvents that can be adapted for battery electrode delamination. This makes statistical boundaries important. Competition is shifting from basic solvent availability to application performance, including binder dissolution efficiency, impurity control, solvent recovery rate, compatibility with cathode and anode materials, current collector corrosion control, and integration with continuous recycling lines. Companies with battery grade purification capability, safer solvent systems, and recyclable process packages are better positioned to capture downstream qualification opportunities. The policy environment is generally supportive because battery recycling, critical mineral recovery, resource security, and low carbon manufacturing are becoming more important across major regions. However, solvent delamination will not fully replace mechanical crushing, thermal treatment, or hydrometallurgical pretreatment in the near term. Different routes will coexist depending on battery chemistry, electrode scrap quality, recovery target, and cost structure. Future growth will be driven by larger electrode scrap streams, direct regeneration projects, greener solvent substitution, recycling capacity expansion, and regional supply chain localization, while near term adoption will still be constrained by safety regulation, solvent recovery economics, and the lack of unified downstream process standards.

This report is a detailed and comprehensive analysis for global Battery Electrode Delamination Solvent market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Battery Electrode Delamination Solvent market size and forecasts, in

consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Battery Electrode Delamination Solvent market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Battery Electrode Delamination Solvent market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Battery Electrode Delamination Solvent market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Battery Electrode Delamination Solvent

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Battery Electrode Delamination Solvent market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Ashland Inc., BASF SE, Mitsubishi Chemical Corporation, LyondellBasell Industries N.V., Eastman Chemical Company, Balaji Amines Limited, Shandong Changxin Chemical Science-Tech Co., Ltd., Chongqing Zhongrun New Materials Co., Ltd., Binzhou Yuneng Electronic Materials Co., Ltd., Wanhua Chemical Group Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Battery Electrode Delamination Solvent market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

NMP-based Solvents

DMSO-based Solvents

DMI-based Solvents

Bio-based Alternative Solvents

Aqueous-assisted Solvent Systems

Others

Market segment by Function

Binder Dissolution Solvents

Binder Swelling Solvents

Delamination-assisted Blends

Low-toxicity Replacement Solvents

Others

Market segment by Electrode Type

Cathode Delamination Solvents

Anode Delamination Solvents

Mixed Electrode Delamination Solvents

Electrode Scrap Delamination Solvents

Others

Market segment by Application

Black Mass Pretreatment

Spent Battery Recycling Pretreatment

Direct Cathode Regeneration

Current Collector Recovery

Others

Major players covered

Ashland Inc.

BASF SE

Mitsubishi Chemical Corporation

LyondellBasell Industries N.V.

Eastman Chemical Company

Balaji Amines Limited

Shandong Changxin Chemical Science-Tech Co., Ltd.

Chongqing Zhongrun New Materials Co., Ltd.

Binzhou Yuneng Electronic Materials Co., Ltd.

Wanhua Chemical Group Co., Ltd.

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 Battery Electrode Delamination Solvent product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Battery Electrode Delamination Solvent, with price, sales quantity, revenue, and global market share of Battery Electrode Delamination Solvent from 2021 to 2026.

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

Chapter 4, the Battery Electrode Delamination Solvent breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

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 2021 to 2026. and Battery Electrode Delamination Solvent market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Battery Electrode Delamination Solvent.

Chapter 14 and 15, to describe Battery Electrode Delamination Solvent sales channel, distributors, customers, research findings and conclusion.

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