

# **Battery Electrolyte Additives Market Forecasts to 2034 – Global Analysis By Product (Film-Forming Additives, Flame Retardant Additives, Conductivity Enhancers, Overcharge Protection Additives and Other Products), Battery Chemistry (Lithium-ion Batteries, Lithium Polymer Batteries, Sodium-ion Batteries and Other Battery Chemistries), Function, Electrolyte Type, End User, and Geography**

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## **Abstracts**

According to Statistics MRC, the Global Battery Electrolyte Additives Market is accounted for \$4.8 billion in 2026 and is expected to reach \$17.9 billion by 2034 growing at a CAGR of 17.9% during the forecast period. Battery electrolyte additives are specialized chemical compounds incorporated into battery electrolytes to improve electrochemical performance, safety, stability, cycle life, and overall efficiency of rechargeable batteries. These additives enhance the formation of stable electrode interfaces, reduce degradation, improve thermal stability, suppress unwanted chemical reactions, and increase charging performance. Battery electrolyte additives are widely used in lithium-ion, solid-state, sodium-ion, and other advanced battery technologies for electric vehicles, consumer electronics, renewable energy storage, and industrial applications. Growing global demand for high-performance energy storage systems is driving innovation in battery electrolyte additives.

Market Dynamics:

Driver:

## Growing lithium-ion battery demand

Battery electrolyte additives are specialized chemical compounds that enhance electrolyte stability improve battery safety extend cycle life and increase the overall performance of rechargeable batteries. The rapid adoption of electric vehicles and energy storage systems is increasing the consumption of advanced battery materials. Manufacturers are developing high-performance additives to improve battery efficiency and durability. Continuous innovation in battery technologies is supporting demand for advanced electrolyte formulations. Investments in battery manufacturing capacity are further accelerating market growth. Electrolyte additives have become essential for improving next-generation battery performance.

### Restraint:

#### Complex additive formulation requirements

Developing effective electrolyte additives requires precise chemical formulation to achieve compatibility with different battery chemistries and operating conditions. Manufacturers must balance safety conductivity thermal stability and long-term battery performance during product development. Extensive testing increases development costs and commercialization timelines. Continuous research is improving formulation efficiency and product reliability. Advanced material science is helping overcome technical challenges. Optimized formulations remain critical for successful battery performance.

### Opportunity:

#### Next-generation battery chemistry development

Emerging battery technologies require advanced electrolyte additives that improve electrochemical stability enhance energy density and support longer battery life under demanding operating conditions. Material developers are introducing innovative additives to meet the performance needs of future battery platforms. Research activities are expanding the application of specialized chemical formulations. Growing investments in battery innovation continue creating new commercial opportunities. Technological advancements are strengthening product differentiation across the market. Advanced battery chemistries are expanding the role of electrolyte additives.

### Threat:

## Rapid battery technology evolution

Continuous advancements in battery materials and cell designs require additive manufacturers to frequently adapt products to evolving technical requirements. Existing formulations may become less suitable as new battery architectures enter commercial production. Ongoing research and development investments are essential for maintaining market competitiveness. Manufacturers continue accelerating innovation to meet changing industry demands. Technology evolution increases pressure on product development cycles. Continuous innovation is essential for long-term market success.

## Covid-19 Impact:

The COVID-19 pandemic disrupted battery material supply chains and temporarily slowed automotive and electronics manufacturing activities. Despite short-term challenges the recovery in electric vehicle production renewable energy storage deployment and battery manufacturing accelerated demand for advanced electrolyte additives. Manufacturers strengthened regional supply chains to improve material availability. Investments in battery production expanded as clean energy initiatives gained momentum. Research and development activities resumed rapidly following economic recovery. The post-pandemic energy transition continues supporting long-term market growth.

The film-forming additives segment is expected to be the largest during the forecast period

The film-forming additives segment is expected to account for the largest market share during the forecast period as their ability to form stable solid electrolyte interphase layers significantly improves battery cycle life safety and electrochemical performance. These additives protect electrode surfaces from degradation during repeated charging and discharging cycles. Battery manufacturers increasingly incorporate film-forming additives into lithium-ion battery designs. Continuous improvements in additive chemistry are enhancing battery reliability. Growing demand for high-performance batteries supports sustained adoption. Film-forming additives remain the leading product category within electrolyte additives.

The solid-state electrolytes segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the solid-state electrolytes segment is predicted to witness the highest growth rate due to growing development of solid-state battery technologies. Manufacturers are investing in advanced electrolyte materials to improve battery safety and energy density. Solid-state systems require specialized additives that enhance ionic conductivity and interfacial stability. Increasing research activities are accelerating commercialization efforts. Demand from electric vehicles and advanced energy storage applications continues supporting market expansion. Solid-state electrolyte technologies are expected to drive the next phase of battery innovation.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to strong investments in battery research and development. Battery manufacturers and material suppliers continue introducing advanced electrolyte technologies for electric vehicles and energy storage systems. Government support for domestic battery production is strengthening the regional supply chain. Continuous technological innovation encourages commercial adoption of high-performance battery materials. Expanding manufacturing capabilities reinforce regional market leadership. North America remains a major market for battery electrolyte additives.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by expanding battery manufacturing capacity. Leading battery producers are increasing production to meet rising demand from electric vehicles and consumer electronics. Investments in gigafactories are strengthening regional supply chains for battery materials. Continuous industrial expansion is supporting higher consumption of electrolyte additives. Growing battery exports further contribute to market growth. Asia Pacific is expected to become the fastest-growing market for battery electrolyte additives.

Key players in the market

Some of the key players in Battery Electrolyte Additives Market include CAPCHEM Technology Co., Ltd., Mitsubishi Chemical Group Corporation, Ube Corporation, Shenzhen Capchem Technology Co., Ltd., BASF SE, Solvay SA, Merck KGaA, DuPont de Nemours, Inc., Samsung SDI Co., Ltd., LG Chem Ltd., Panasonic Holdings Corporation, Tinci Materials Technology Co., Ltd., Soulbrain Co., Ltd., Central Glass Co., Ltd. and UBE Fine Chemicals (Asia) Co., Ltd.

### Key Developments:

In June 2026, Capchem aggressively expanded its European market footprint by executing a specialized product launch of its latest functional additives and advanced lithium salts. The new formulation series introduces next-generation Solid Electrolyte Interphase (SEI) forming agents engineered specifically to stabilize electrode interfaces, shorten battery development cycles, and prevent swelling in high-capacity electric vehicle cells.

In June 2026, BASF SE deepened its circular chemical infrastructure by signing an expanded strategic collaboration agreement with Encina Development Group. The corporate partnership establishes an engineering advisory framework for Encina's upcoming U.S. Gulf Coast manufacturing facility and secures long-term chemical feedstocks for BASF's "Ccycled" portfolio, which services down-stream extraction solvent and battery recycling operations.

In March 2026, Mitsubishi Chemical officially completed a definitive corporate agreement to transfer its lithium-ion battery electrolyte manufacturing bases in the United States and the United Kingdom to Green E Origin SARL (GEO). The structural asset sale includes the complete handover of production plants in Memphis, Tennessee, and Billingham, UK.

### Product Types Covered:

Film-Forming Additives

Flame Retardant Additives

Conductivity Enhancers

Overcharge Protection Additives

Other Products

### Battery Chemistries Covered:

Lithium-ion Batteries

Lithium Polymer Batteries

Sodium-ion Batteries

Other Battery Chemistries

#### Functions Covered:

Cycle Life Enhancement

Thermal Stability Enhancement

Safety Enhancement

High Voltage Stabilization

Other Functions

#### Electrolyte Types Covered:

Liquid Electrolytes

Gel Electrolytes

Solid-State Electrolytes

Other Electrolyte Types

#### End Users Covered:

Electric Vehicles

Consumer Electronics

Energy Storage Systems

Industrial Batteries

Other End Users

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

## Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

## South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America



## Rest of the World (RoW)

### Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

### Africa

South Africa

Egypt

Morocco

Rest of Africa

## What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

#### Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

##### Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

##### Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

##### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

## Contents

### **1 EXECUTIVE SUMMARY**

- 1.1 Market Snapshot and Key Highlights
- 1.2 Growth Drivers, Challenges, and Opportunities
- 1.3 Competitive Landscape Overview
- 1.4 Strategic Insights and Recommendations

### **2 RESEARCH FRAMEWORK**

- 2.1 Study Objectives and Scope
- 2.2 Stakeholder Analysis
- 2.3 Research Assumptions and Limitations
- 2.4 Research Methodology
  - 2.4.1 Data Collection (Primary and Secondary)
  - 2.4.2 Data Modeling and Estimation Techniques
  - 2.4.3 Data Validation and Triangulation
  - 2.4.4 Analytical and Forecasting Approach

### **3 MARKET DYNAMICS AND TREND ANALYSIS**

- 3.1 Market Definition and Structure
- 3.2 Key Market Drivers
- 3.3 Market Restraints and Challenges
- 3.4 Growth Opportunities and Investment Hotspots
- 3.5 Industry Threats and Risk Assessment
- 3.6 Technology and Innovation Landscape
- 3.7 Emerging and High-Growth Markets
- 3.8 Regulatory and Policy Environment
- 3.9 Impact of COVID-19 and Recovery Outlook

### **4 COMPETITIVE AND STRATEGIC ASSESSMENT**

- 4.1 Porter's Five Forces Analysis
  - 4.1.1 Supplier Bargaining Power
  - 4.1.2 Buyer Bargaining Power
  - 4.1.3 Threat of Substitutes
  - 4.1.4 Threat of New Entrants

- 4.1.5 Competitive Rivalry
- 4.2 Market Share Analysis of Key Players
- 4.3 Product Benchmarking and Performance Comparison

## **5 GLOBAL BATTERY ELECTROLYTE ADDITIVES MARKET, BY PRODUCT**

- 5.1 Film-Forming Additives
- 5.2 Flame Retardant Additives
- 5.3 Conductivity Enhancers
- 5.4 Overcharge Protection Additives
- 5.5 Other Products

## **6 GLOBAL BATTERY ELECTROLYTE ADDITIVES MARKET, BY BATTERY CHEMISTRY**

- 6.1 Lithium-ion Batteries
- 6.2 Lithium Polymer Batteries
- 6.3 Sodium-ion Batteries
- 6.4 Other Battery Chemistries

## **7 GLOBAL BATTERY ELECTROLYTE ADDITIVES MARKET, BY FUNCTION**

- 7.1 Cycle Life Enhancement
- 7.2 Thermal Stability Enhancement
- 7.3 Safety Enhancement
- 7.4 High Voltage Stabilization
- 7.5 Other Functions

## **8 GLOBAL BATTERY ELECTROLYTE ADDITIVES MARKET, BY ELECTROLYTE TYPE**

- 8.1 Liquid Electrolytes
- 8.2 Gel Electrolytes
- 8.3 Solid-State Electrolytes
- 8.4 Other Electrolyte Types

## **9 GLOBAL BATTERY ELECTROLYTE ADDITIVES MARKET, BY END USER**

- 9.1 Electric Vehicles

- 9.2 Consumer Electronics
- 9.3 Energy Storage Systems
- 9.4 Industrial Batteries
- 9.5 Other End Users

## **10 GLOBAL BATTERY ELECTROLYTE ADDITIVES MARKET, BY GEOGRAPHY**

- 10.1 North America
  - 10.1.1 United States
  - 10.1.2 Canada
  - 10.1.3 Mexico
- 10.2 Europe
  - 10.2.1 United Kingdom
  - 10.2.2 Germany
  - 10.2.3 France
  - 10.2.4 Italy
  - 10.2.5 Spain
  - 10.2.6 Netherlands
  - 10.2.7 Belgium
  - 10.2.8 Sweden
  - 10.2.9 Switzerland
  - 10.2.10 Poland
  - 10.2.11 Rest of Europe
- 10.3 Asia Pacific
  - 10.3.1 China
  - 10.3.2 Japan
  - 10.3.3 India
  - 10.3.4 South Korea
  - 10.3.5 Australia
  - 10.3.6 Indonesia
  - 10.3.7 Thailand
  - 10.3.8 Malaysia
  - 10.3.9 Singapore
  - 10.3.10 Vietnam
  - 10.3.11 Rest of Asia Pacific
- 10.4 South America
  - 10.4.1 Brazil
  - 10.4.2 Argentina
  - 10.4.3 Colombia

- 10.4.4 Chile
- 10.4.5 Peru
- 10.4.6 Rest of South America
- 10.5 Rest of the World (RoW)
  - 10.5.1 Middle East
    - 10.5.1.1 Saudi Arabia
    - 10.5.1.2 United Arab Emirates
    - 10.5.1.3 Qatar
    - 10.5.1.4 Israel
    - 10.5.1.5 Rest of Middle East
  - 10.5.2 Africa
    - 10.5.2.1 South Africa
    - 10.5.2.2 Egypt
    - 10.5.2.3 Morocco
    - 10.5.2.4 Rest of Africa

## **11 STRATEGIC MARKET INTELLIGENCE**

- 11.1 Industry Value Network and Supply Chain Assessment
- 11.2 White-Space and Opportunity Mapping
- 11.3 Product Evolution and Market Life Cycle Analysis
- 11.4 Channel, Distributor, and Go-to-Market Assessment

## **12 INDUSTRY DEVELOPMENTS AND STRATEGIC INITIATIVES**

- 12.1 Mergers and Acquisitions
- 12.2 Partnerships, Alliances, and Joint Ventures
- 12.3 New Product Launches and Certifications
- 12.4 Capacity Expansion and Investments
- 12.5 Other Strategic Initiatives

## **13 COMPANY PROFILES**

- 13.1 CAPCHEM Technology Co., Ltd.
- 13.2 Mitsubishi Chemical Group Corporation
- 13.3 Ube Corporation
- 13.4 Shenzhen Capchem Technology Co., Ltd.
- 13.5 BASF SE
- 13.6 Solvay SA

- 13.7 Merck KGaA
- 13.8 DuPont de Nemours, Inc.
- 13.9 Samsung SDI Co., Ltd.
- 13.10 LG Chem Ltd.
- 13.11 Panasonic Holdings Corporation
- 13.12 Tinci Materials Technology Co., Ltd.
- 13.13 Soulbrain Co., Ltd.
- 13.14 Central Glass Co., Ltd.
- 13.15 UBE Fine Chemicals (Asia) Co., Ltd.

## List Of Tables

### LIST OF TABLES

Table 1 Global Battery Electrolyte Additives Market Outlook, By Region (2023–2034) (\$MN)

Table 2 Global Battery Electrolyte Additives Market, By Product (2023–2034) (\$MN)

Table 3 Global Battery Electrolyte Additives Market, By Film-Forming Additives (2023–2034) (\$MN)

Table 4 Global Battery Electrolyte Additives Market, By Flame Retardant Additives (2023–2034) (\$MN)

Table 5 Global Battery Electrolyte Additives Market, By Conductivity Enhancers (2023–2034) (\$MN)

Table 6 Global Battery Electrolyte Additives Market, By Overcharge Protection Additives (2023–2034) (\$MN)

Table 7 Global Battery Electrolyte Additives Market, By Other Products (2023–2034) (\$MN)

Table 8 Global Battery Electrolyte Additives Market, By Battery Chemistry (2023–2034) (\$MN)

Table 9 Global Battery Electrolyte Additives Market, By Lithium-ion Batteries (2023–2034) (\$MN)

Table 10 Global Battery Electrolyte Additives Market, By Lithium Polymer Batteries (2023–2034) (\$MN)

Table 11 Global Battery Electrolyte Additives Market, By Sodium-ion Batteries (2023–2034) (\$MN)

Table 12 Global Battery Electrolyte Additives Market, By Other Battery Chemistries (2023–2034) (\$MN)

Table 13 Global Battery Electrolyte Additives Market, By Function (2023–2034) (\$MN)

Table 14 Global Battery Electrolyte Additives Market, By Cycle Life Enhancement (2023–2034) (\$MN)

Table 15 Global Battery Electrolyte Additives Market, By Thermal Stability Enhancement (2023–2034) (\$MN)

Table 16 Global Battery Electrolyte Additives Market, By Safety Enhancement (2023–2034) (\$MN)

Table 17 Global Battery Electrolyte Additives Market, By High Voltage Stabilization (2023–2034) (\$MN)

Table 18 Global Battery Electrolyte Additives Market, By Other Functions (2023–2034) (\$MN)

Table 19 Global Battery Electrolyte Additives Market, By Electrolyte Type (2023–2034)



(\$MN)

Table 20 Global Battery Electrolyte Additives Market, By Liquid Electrolytes  
(2023–2034) (\$MN)

Table 21 Global Battery Electrolyte Additives Market, By Gel Electrolytes (2023–2034)  
(\$MN)

Table 22 Global Battery Electrolyte Additives Market, By Solid-State Electrolytes  
(2023–2034) (\$MN)

Table 23 Global Battery Electrolyte Additives Market, By Other Electrolyte Types  
(2023–2034) (\$MN)

Table 24 Global Battery Electrolyte Additives Market, By End User (2023–2034) (\$MN)

Table 25 Global Battery Electrolyte Additives Market, By Electric Vehicles (2023–2034)  
(\$MN)

Table 26 Global Battery Electrolyte Additives Market, By Consumer Electronics  
(2023–2034) (\$MN)

Table 27 Global Battery Electrolyte Additives Market, By Energy Storage Systems  
(2023–2034) (\$MN)

Table 28 Global Battery Electrolyte Additives Market, By Industrial Batteries  
(2023–2034) (\$MN)

Table 29 Global Battery Electrolyte Additives Market, By Other End Users (2023–2034)  
(\$MN)

Note: Tables for North America, Europe, APAC, South America, and Rest of the World  
(RoW) are also represented in the same manner as above.

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