

# Global Battery Additives Market Size Study, by Type (Conductive Additive, Nucleating Additive, Porous Additive), by Product (Electrolyte Additives, Expander Mixes), by Application (Lead Acid Battery, Lithium-Ion Battery), and Regional Forecasts 2022-2032

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## Abstracts

Global Battery Additives Market is valued at approximately USD 2.45 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 9.92% over the forecast period 2024-2032. Battery additives are chemical compounds introduced into a battery's electrolytic solution or electrode materials to enhance the battery's performance, efficiency, and longevity. These additives can impact a range of battery characteristics, including charge capacity, cycle life, rate capability, safety, and storage stability. Significant investments in the production of lead-acid and lithium-ion batteries have improved the demand for battery additives in recent years. In addition, the elevated demand for electric vehicles (EVs) and renewable energy storage systems is propelling the demand for battery additives. Stricter environmental regulations and a heightened global focus on sustainability are accelerating the shift towards more efficient and long-lasting batteries. However, the fluctuating availability and cost of raw materials due to supply chain disruptions can negatively affect the battery additives market. Disposal and recycling of batteries pose environmental and health risks, potentially resulting in stringent regulations that could slow down the penetration of battery additives. Nevertheless, technological advancements in battery design and energy densities, along with the declining cost of lithium-ion batteries, also catalyze the usage of battery additives. Furthermore, the growing proliferation of portable electronics contributes to a sustained demand for advanced battery additives.

The Global Battery Additives Market is experiencing robust growth, propelled by several key factors. The growing usage of conductive additives for high-power applications is

particularly notable. Conductive additives are integrated into electrode formulations to enhance the electrical conductivity within battery cells. The need for conductive additives is particularly high in applications requiring high power output, such as electric vehicles (EVs) and devices demanding quick charge-discharge cycles. Nucleating additives are used to control the crystal structure formation in the battery electrolyte, which can significantly affect the ion transport characteristics of the battery. Nucleating additives are essential for optimal battery performance, especially regarding cycle life and stability. The preference for nucleating additives is pronounced in batteries designed for energy storage systems and portable electronics, where long-term reliability is necessary. Porous additives play a pivotal role in enhancing the electrolyte uptake and ionic conductivity within battery cells by creating more pathways for ion movement. Porous additives comprise materials, including silica or polymers, that form a porous network within the electrode structure. These additives are critical for batteries that need to support rapid charging by facilitating faster ion diffusion through the electrolyte.

The Global Battery Additives Market is also seeing an expanding role for expander mixes, which are crucial for preserving the active material's porosity and electrical conductivity in lead-acid batteries. Expander mixes are particulate additives incorporated into the negative electrodes of lead-acid batteries. The role of expander mixes is to preserve the active material's porosity and electrical conductivity, thus preventing the densification of the lead sponge during battery operation. Enhanced Flooded Battery (EFB) batteries are an improved version of the standard flooded battery, offering better cycle life and durability under demanding conditions. Absorbent Glass Mat (AGM) batteries consist of a glass mat separator that wicks the electrolyte solution between the battery plates and are known for their low internal resistance and good electrical reliability. Gel-type batteries contain a silica-based gel that immobilizes the electrolyte, making them leakproof and suited for various orientation installations with excellent deep discharge capabilities. High-charge acceptance batteries are engineered to allow rapid recharging without degrading the battery's lifespan or performance. Starting, Lighting, and Ignition (SLI) batteries are designed to provide the high surge currents required to start internal combustion engines to deliver a large amount of current for a short period, followed by long periods of low-level charging from the vehicle's alternator. Stationary batteries are designed for deep-cycle applications with long discharge periods and can sustain performance over extended periods with minimal maintenance. Traction batteries are designed to provide high power output and endurance to propel vehicles over significant distances between charges. Seeding material refers to additives that initiate and promote the formation of desirable crystal structures in battery electrodes during their initial formation cycle. Proper seed material

selection can reduce the time required for the battery formation process and enhance the long-term cyclability and stability of the batteries.

The key regions considered for the global Battery Additives market study include Asia Pacific, North America, Europe, Latin America, and Rest of the World. The battery additives market in the North America is rapidly developing due to the strong focus on electric vehicle production and renewable energy storage systems. Customer purchasing behavior is primarily driven by the demand for high-performance and long-lasting batteries, fueling research and investment in advanced additive technologies in the Americas. Whereas, the Asia Pacific region represents a significant share of the global battery additives market due to the establishment of the battery manufacturing sector, substantial investments in EV infrastructure, and the burgeoning renewable energy sector. The rapid adoption of electric vehicles, portable electronics, and large-scale energy storage solutions drives consumer needs for battery additives in Asia-Pacific.

Major market players included in this report are:

Battery Solution International Ltd.

Borregaard ASA

Cabot Corporation

Daikin Industries, Ltd.

Hammond Group, Inc.

Hitachi, Ltd.

Hollingsworth & Vose Company

Huawei Technologies Co., Ltd.

IMERYS S.A.

LG Chem Ltd.

Manish Enterprises

OCSiAl

Orion Engineered Carbons S.A.

PENOX Group GmbH

Samsung SDI Co., Ltd.

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

#### By Type

Conductive Additive

Nucleating Additive

Porous Additive

#### By Product

Electrolyte Additives

Expander Mixes

#### By Application

Lead Acid Battery

Lithium-Ion Battery

#### 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

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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