

Global Aqueous Zinc-Ion Battery Cathode Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Aqueous Zinc-Ion Battery Cathode Materials market size is expected to reach \$ 1582 million by 2032, rising at a market growth of 17.8% CAGR during the forecast period (2026-2032).

Aqueous zinc-ion battery cathode materials are active materials for the positive electrode of rechargeable aqueous zinc-ion batteries, including manganese-based oxides, vanadium-based oxides, Prussian blue analogs, organic cathode materials, and their doped, composite, or coated derivatives. This also includes coated electrode sheets intended for R&D and pilot-scale sales. Energy storage is achieved through Zn²⁺/H⁺ intercalation, conversion, or organic redox reactions. Key procurement metrics include specific capacity, operating voltage, cycle life, rate performance, phase structure, particle size, purity, and stability in aqueous electrolytes. The estimated gross margin is approximately 32%.

The market is still transitioning from laboratory validation to small-batch and demonstration projects. Demand mainly comes from energy storage cell R&D, pilot lines, and a few zinc-based energy storage system companies. Manganese-based oxides, due to their low cost, abundant resources, and established supply chain, are currently the easiest route for scale-up. Vanadium-based materials, Prussian blue analogs, and organic cathodes serve more for high-capacity, long-cycle, or low-temperature performance optimization.

Growth drivers include: (1) increased demand for low-cost, intrinsically safe, non-lithium energy storage solutions; (2) battery manufacturers requiring stable cathode phase structures, doped composites, and surface-coated materials to address manganese dissolution, structural collapse, and insufficient rate capability. Short-term market size is

limited by full-cell commercialization pace, with sales still dominated by high-purity MnO₂, modified manganese-based materials, and R&D-grade coated electrodes. In the medium to long term, if commercial and backup energy storage scenarios generate bulk orders, cathode materials will transition from reagent and sample-grade procurement to battery-grade bulk certification.

This report studies the global Aqueous Zinc-Ion Battery Cathode Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Aqueous Zinc-Ion Battery Cathode Materials and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Aqueous Zinc-Ion Battery Cathode Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Aqueous Zinc-Ion Battery Cathode Materials total production and demand, 2021-2032, (kg)

Global Aqueous Zinc-Ion Battery Cathode Materials total production value, 2021-2032, (USD Million)

Global Aqueous Zinc-Ion Battery Cathode Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Aqueous Zinc-Ion Battery Cathode Materials consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Aqueous Zinc-Ion Battery Cathode Materials domestic production, consumption, key domestic manufacturers and share

Global Aqueous Zinc-Ion Battery Cathode Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Aqueous Zinc-Ion Battery Cathode Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Aqueous Zinc-Ion Battery Cathode Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Aqueous Zinc-Ion Battery Cathode Materials market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Xiangtan Electrochemical Scientific, South Manganese, Guangxi Guiliu New Material, Guizhou

Redstar Developing, Tosoh, Borman Specialty Materials, Manmohan Minerals and Chemicals, MTI, American Elements, Merck, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Aqueous Zinc-Ion Battery Cathode Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Aqueous Zinc-Ion Battery Cathode Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Aqueous Zinc-Ion Battery Cathode Materials Market, Segmentation by Type:

Manganese-Based Oxides

Vanadium-Based Oxides

Prussian Blue Analogues

Organic Cathode Materials

Polyanion and Other Inorganic Hosts

Global Aqueous Zinc-Ion Battery Cathode Materials Market, Segmentation by Crystal and Host Structure:

Tunnel-Type Hosts

Layered Hosts

Spinel and Framework Hosts

Molecular Redox Hosts

Composite or Heterostructure Hosts

Global Aqueous Zinc-Ion Battery Cathode Materials Market, Segmentation by Modification Method:

Unmodified Materials

Element-Doped Materials

Carbon-Composite Materials

Conductive Polymer-Composite Materials

Surface-Coated Materials

Global Aqueous Zinc-Ion Battery Cathode Materials Market, Segmentation by Delivery

Form:

Active Material Powder

Coated Cathode Electrode

Cathode Slurry or Ink

Cathode Precursor

Custom Composite Material

Global Aqueous Zinc-Ion Battery Cathode Materials Market, Segmentation by Application:

Utility-Scale Storage

Commercial and Industrial Storage

Residential Storage

Telecom and Data Center Backup

Low-Speed Mobility and Portable Power

Research and Pilot Production

Companies Profiled:

Xiangtan Electrochemical Scientific

South Manganese

Guangxi Guiliu New Material

Guizhou Redstar Developing

Tosoh

Borman Specialty Materials

Manmohan Minerals and Chemicals

MTI

American Elements

Merck

Key Questions Answered:

1. How big is the global Aqueous Zinc-Ion Battery Cathode Materials market?
2. What is the demand of the global Aqueous Zinc-Ion Battery Cathode Materials market?
3. What is the year over year growth of the global Aqueous Zinc-Ion Battery Cathode Materials market?
4. What is the production and production value of the global Aqueous Zinc-Ion Battery Cathode Materials market?
5. Who are the key producers in the global Aqueous Zinc-Ion Battery Cathode Materials market?
6. What are the growth factors driving the market demand?

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