

Global Layered Oxide Sodium-Ion Battery Cathode Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Layered Oxide Sodium-Ion Battery Cathode Material market size is expected to reach \$ 910 million by 2032, rising at a market growth of 35.6% CAGR during the forecast period (2026-2032).

Layered oxide sodium-ion battery cathode materials are sodium-ion battery cathode active materials represented by the general formula Na_xMO_y , in which transition metal layers and sodium layers are alternately stacked. Common crystal structures include O3-type, P2-type, and composite-phase systems. By optimizing combinations of Ni, Fe, Mn, Cu, and other transition metals, together with doping, surface coating, and particle size control, these materials achieve a balance among energy density, rate capability, cycle life, residual alkali, and moisture control. They are primarily used in sodium-ion battery cell manufacturing for applications such as energy storage systems, low-speed electric vehicles, light-duty power applications, and backup power supplies. Based on early commercial production conditions in 2025-2026, the estimated industry-wide gross margin is approximately 28%.

Layered oxide cathodes are currently one of the sodium-ion battery cathode chemistries closest to large-scale commercialization. Their technical framework is relatively similar to that of layered lithium-ion cathodes, making them easier for battery manufacturers to understand, validate, and integrate into existing production lines. Their main advantage lies in relatively high energy density and good process compatibility, making them well suited for energy storage, low-speed transportation, light-duty power, and certain industrial power applications where capacity, cost, and supply chain security are all important considerations.

The market is still in the early adoption stage, and purchasers focus more on material consistency, cycle life, air stability, residual alkali control, tap density, and transition metal composition than on theoretical capacity alone. Different sodium-ion cathode chemistries are not expected to simply replace one another. Layered oxides are more likely to serve as the mainstream high-capacity cathode platform, while Prussian blue analogues retain differentiated advantages in cost, safety, and high-rate applications.

Future growth will largely depend on how quickly sodium-ion batteries transition from demonstration projects to stable volume production. As lithium resource prices fluctuate and demand for lower-cost energy storage solutions increases, layered oxide cathode materials are expected to be among the earliest beneficiaries. However, challenges such as capacity fading, gas generation, moisture sensitivity, and batch-to-batch consistency still need to be addressed. In the near term, competition will center on joint validation programs between leading material suppliers and battery manufacturers, platform standardization, and large-scale supply capability.

This report studies the global Layered Oxide Sodium-Ion Battery Cathode Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Layered Oxide Sodium-Ion Battery Cathode Material 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 Layered Oxide Sodium-Ion Battery Cathode Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Layered Oxide Sodium-Ion Battery Cathode Material total production and demand, 2021-2032, (kg)

Global Layered Oxide Sodium-Ion Battery Cathode Material total production value, 2021-2032, (USD Million)

Global Layered Oxide Sodium-Ion Battery Cathode Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Layered Oxide Sodium-Ion Battery Cathode Material consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Layered Oxide Sodium-Ion Battery Cathode Material domestic production, consumption, key domestic manufacturers and share

Global Layered Oxide Sodium-Ion Battery Cathode Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Layered Oxide Sodium-Ion Battery Cathode Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Layered Oxide Sodium-Ion Battery Cathode Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Layered Oxide Sodium-Ion Battery Cathode Material 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 Ronbay Technology, BTR, Zhenhua E-Chem, Easpring, NaTRIUM Energy, Amandarry, Eagleenergy, NEI, TOB New Energy, 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 Layered Oxide Sodium-Ion Battery Cathode Material 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 Layered Oxide Sodium-Ion Battery Cathode Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Layered Oxide Sodium-Ion Battery Cathode Material Market, Segmentation by Type:

O3-Type Layered Oxide

P2-Type Layered Oxide

P3-Type Layered Oxide

Biphasic O/P Layered Oxide

Other Layered Oxide

Global Layered Oxide Sodium-Ion Battery Cathode Material Market, Segmentation by Transition Metal System:

Ni-Mn-Based Layered Oxide

Ni-Fe-Mn-Based Layered Oxide

Fe-Mn-Based Layered Oxide

Cu-Fe-Mn-Based Layered Oxide

Ni-Co-Mn-Based Layered Oxide

Other Multi-Metal Layered Oxide

Global Layered Oxide Sodium-Ion Battery Cathode Material Market, Segmentation by Performance Positioning:

- Energy Grade
- Power Grade
- Long-Life Grade
- Low-Cost Grade
- Low-Temperature Grade
- Other Performance Grade

Global Layered Oxide Sodium-Ion Battery Cathode Material Market, Segmentation by Particle Morphology:

- Single-Crystal Particle
- Polycrystalline Secondary Particle
- Spherical Granulated Particle
- Fine Powder Particle
- Other Particle Morphology

Global Layered Oxide Sodium-Ion Battery Cathode Material Market, Segmentation by Application:

- Stationary Energy Storage
- Low-Speed Electric Vehicles
- Two-Wheelers and Micro-Mobility

Starter and Backup Power

Portable and Small Power Batteries

Other Battery Applications

Companies Profiled:

Ronbay Technology

BTR

Zhenhua E-Chem

Easpring

NaTRIUM Energy

Amandarry

Eagleenergy

NEI

TOB New Energy

Key Questions Answered:

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

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