

# Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market size is expected to reach \$ 63.41 million by 2032, rising at a market growth of 8.5% CAGR during the forecast period (2026-2032).

In 2024, global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) production reached approximately 766 tons with an average global market price of around US\$ 42,900 per ton. In 2024, the global 's total production capacity of Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) reached 1,100 tons. The industry average gross profit margin of this product reached 26%.

Sodium Difluoro(oxalato)borate (NaODFB) is a new electrolyte additive in lithium-ion battery electrolyte. Its chemical name is Sodium Difluoro(oxalato)borate, and its chemical formula is  $\text{NaDFOB}$  or  $\text{NaBF}_2\text{C}_2\text{O}_4$ . The upstream sector primarily involves the production of basic raw materials and fine chemicals. This includes basic chemical raw materials such as boric acid, oxalic acid, and hydrofluoric acid, as well as materials providing core elements like lithium fluoride and metallic sodium. Through complex synthesis, purification, and crystallization processes, high-purity battery-grade sodium difluorooxalate borate is produced. This sector has high technological barriers, with the core challenge being achieving low-cost, high-quality, and highly consistent large-scale production. Currently, it is dominated by a few chemical material companies that possess the core technologies. The midstream sector is the electrolyte formulation and manufacturing stage. Electrolyte manufacturers take the sodium difluorooxalate borate provided by upstream suppliers and, based on the specific performance requirements of downstream battery customers, blend it with other electrolyte salts (such as  $\text{NaPF}_6$ ,  $\text{LiPF}_6$ ), organic solvents (carbonates, etc.) and functional additives in specific

proportions to produce the final electrolyte product. In this stage, sodium difluorooxalate borate serves both as a key main salt and as a core additive to improve the overall battery performance; its formulation technology directly determines the final performance of the electrolyte. The downstream sector is the end-user application market, mainly consisting of various battery manufacturers. Ultimately, electrolytes containing sodium difluorooxalate borate are used in the manufacture of sodium-ion batteries, high-end lithium-ion batteries, and even aqueous zinc-ion batteries. These batteries are eventually widely used in new energy vehicles, energy storage power stations, communication base stations, and consumer electronics. Downstream market demand, especially the rise and boom of the sodium-ion battery industry, is the core driving force directly propelling the development of the entire sodium difluorooxalate borate industry chain.

The explosive growth of the downstream sodium-ion battery industry is the core driving force. As the requirements for cost and resource security in the new energy vehicle and energy storage markets continue to increase, sodium-ion batteries, as an important supplement and alternative to lithium-ion batteries, are ushering in their first year of industrialization. Sodium difluorooxalate borate, as a key electrolyte material that can significantly improve the cycle life and high-voltage performance of sodium batteries, will directly benefit from the expansion of sodium battery production capacity.

Continuous policy support and macro-strategic needs provide stable guarantees. The global goal of 'carbon neutrality' has driven the vigorous development of the electrochemical energy storage industry. Sodium-ion batteries and their key materials, due to their important strategic significance in overcoming lithium resource constraints and ensuring supply chain security, have been included in the medium- and long-term science and technology development and industrial support plans of many countries and regions, including China, the United States, and the European Union. This top-level policy guidance has injected continuous confidence and momentum into the technological research and development and capacity building of the entire industry chain.

Its irreplaceable technological advantages are the fundamental driving force. Sodium difluorooxalate borate's unique synergistic film-forming ability can simultaneously form a stable interfacial protective layer on both the positive and negative electrodes. This technological advantage has been repeatedly verified in the laboratory and in the early stages of industrialization. It can effectively solve key technical bottlenecks such as short cycle life and instability under high voltage in sodium batteries. At the same time, as an efficiency-enhancing additive for lithium-ion batteries, it can broaden the battery's

operating temperature range (especially low-temperature performance), meeting the needs of special fields and high-end products, thus opening up diversified application markets for it.

This report studies the global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) total production and demand, 2021-2032, (Tons)

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) total production value, 2021-2032, (USD Million)

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) domestic production, consumption, key domestic manufacturers and share

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) 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 Guotai Superwei, Shanghai Rolechem Co.,Ltd., Jiangsu Hsc New Energy Materials Co.,Ltd.,

Shandong Hemiao New Materials Co., Ltd., Tokyo Chemical Industry, Beyond Battery, Zhengzhou Alfa Chemical Co.,Ltd, Boron Molecular, Hubei Maidehao Biotechnology Co., Ltd., Wuhan Kamik Technology Co., Ltd., 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

## Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) Market, Segmentation by Type:

Purity: 98%

Purity: 99%

Others

## Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) Market, Segmentation by Synthesis Process:

One-step Synthesis

Multi-step Synthesis

## Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) Market, Segmentation by Function:

Main Salt

Core Additive

## Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) Market, Segmentation by Product Form:

Solid Powder

Electrolyte Solution

## Global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) Market, Segmentation by Application:

Sodium Ion Battery

## Lithium Ion Battery

### Companies Profiled:

Guotai Superwei

Shanghai Rolechem Co.,Ltd.

Jiangsu Hsc New Energy Materials Co.,Ltd.

Shandong Hemiao New Materials Co., Ltd.

Tokyo Chemical Industry

Beyond Battery

Zhengzhou Alfa Chemical Co.,Ltd

Boron Molecular

Hubei Maidehao Biotechnology Co., Ltd.

Wuhan Kamik Technology Co., Ltd.

### Key Questions Answered:

1. How big is the global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market?
2. What is the demand of the global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market?
3. What is the year over year growth of the global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market?
4. What is the production and production value of the global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market?
5. Who are the key producers in the global Sodium Difluoro(oxalato)borate for Battery Electrolyte(NaODFB) market?
6. What are the growth factors driving the market demand?

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