

Lithium-Ion Battery Anode Materials Market By Material Type (Active Anode Materials, Anode Binders, Anode Foils, Others) , : Global Opportunity Analysis and Industry Forecast, 2024-2033

<https://marketpublishers.com/r/L20255CBC731EN.html>

Date: June 2024

Pages: 340

Price: US\$ 2,655.00 (Single User License)

ID: L20255CBC731EN

Abstracts

Lithium-ion Battery Anode Materials Market

The lithium-ion battery anode materials market was valued at \$9.5 billion in 2023 and is projected to reach \$38.4 billion by 2033, growing at a CAGR of 15.1% from 2024 to 2033.

Lithium-ion battery anode materials are the elements used in the negative electrode (anode) of lithium-ion batteries. Accurate choice of anode materials is critical for overall performance of the lithium-ion battery such as capacity, lifespan, and charging characteristics. It directly influences the safety, efficiency, and cost of lithium-ion batteries. A lithium-ion battery is an electrochemical energy storage device that relies on the transfer of lithium ions between anode & cathode and is rechargeable.

Increase in the adoption of portable electronics, including laptops, tablets, and wearable devices is a key driver of the lithium-ion battery anode materials market. In addition, the market is receiving investment from governments for the promotion of clean energy storage solutions, thereby augmenting the development of the market. The battery exhibits ingenious attributes such as rapid charging, prolonged lifecycle, and high energy density, which is boosting the adoption of lithium-ion batteries. Currently, the usage of nanomaterials such as nanostructured graphite, nano-silicon, and other nanocomposites is an emerging trend in the market. These nanomaterials are addressing the limitations of lithium-ion batteries and enhancing the charging capabilities, along with improved cost efficiency.

However, fluctuations in the prices of anode material, coupled with the supply chain disruptions are a major factor restraining the development of the lithium-ion battery anode materials market. In addition, robust competition from alternative battery technologies such as solid-state batteries disrupts the growth of the market. Furthermore, lithium-ion batteries have been recently identified as a source of hazardous chemical pollution, which is anticipated to hamper market growth in the future. According to a study published in the journal Nature Communications, lithium-ion batteries use a class of per-and polyfluoroalkyl substances, also known as 'forever chemicals', which accumulate in the environment, humans, and animals without breaking down for thousands of years. The study states that the chemical is a cause for several health conditions, including high cholesterol, liver damage, chronic kidney disease, and low weight during birth.

Segment Review

The lithium-ion battery anode materials market is segmented into material type and region. On the basis of material type, the market is divided into active anode materials, anode binders, anode foils, and others. Region wise, it is analyzed across North America, Europe, Asia-Pacific, and LAMEA.

Key Findings

On the basis of material type, the active anode materials segment held the highest market share in 2023.

Region-wise, Asia-Pacific was the highest revenue generator in 2023.

Competition Analysis

The leading players operating in the global lithium-ion battery anode materials market include Mitsubishi Chemical Group Corporation., BASF SE, Nippon Carbon Co., Ltd., SK Inc, Tanaka Chemical Corporation, 3M, Johnson Controls, Hitachi High-Tech India Private Limited, SAMSUNG SDI CO. LTD., and GS Yuasa International Ltd. These major players have adopted various key development strategies such as business expansion, new product launches, and partnerships, to strengthen their foothold in the competitive market.

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Analysis of raw material in a product (by %)

Investment Opportunities

Product Benchmarking / Product specification and applications

Product Life Cycles

Technology Trend Analysis

Market share analysis of players by products/segments

New Product Development/ Product Matrix of Key Players

Regulatory Guidelines

Additional company profiles with specific t%li%client's interest

Additional country or region analysis- market size and forecast

Criss-cross segment analysis- market size and forecast

Expanded list for Company Profiles

Historic market data

Key player details (including location, contact details, supplier/vendor network etc. in excel format)

List of customers/consumers/raw material suppliers- value chain analysis

SWOT Analysis

Volume Market Size and Forecast

Key Market Segments

By Material Type

Active Anode Materials

Anode Binders

Anode Foils

Others

By Region

North America

U.S.

Canada

Mexico

Europe

France

Germany

Italy

Spain

UK

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

South Africa

Saudi Arabia

Rest of LAMEA

Key Market Players

Mitsubishi Chemical Group Corporation.

BASF SE

Nippon Carbon C%li%Ltd

SK Inc

Tanaka Chemical Corporation

3M

Johnson Controls.

Hitachi High-Tech India Private Limited

SAMSUNG SDI CO.,LTD.

GS Yuasa International Ltd

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