

Global Synthetic Graphite for Lithium-Ion Batteries Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Synthetic Graphite for Lithium-Ion Batteries market size is expected to reach \$ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Synthetic graphite is a form of carbon that is specifically engineered for use in a variety of applications, including as an anode material in lithium-ion batteries. It is produced through the controlled thermal treatment of petroleum coke or coal tar pitch, which is graphitized to produce a highly pure form of carbon with excellent electrochemical properties.

Synthetic graphite is widely used in lithium-ion batteries due to its high capacity and low resistance, which make it an ideal material for use in high-performance batteries. It is also highly stable and chemically inert, which helps to improve the safety and reliability of lithium-ion batteries.

One of the key advantages of using synthetic graphite in lithium-ion batteries is its high energy density, which allows for the production of batteries with longer cycle life and greater energy storage capacity. It also has a high rate capability, meaning that it can charge and discharge quickly, making it an attractive choice for use in electric vehicles and other applications where fast charging is important.

Another advantage of synthetic graphite is its excellent thermal conductivity, which helps to dissipate heat generated during battery operation, reducing the risk of thermal runaway and improving the overall safety of the battery. Additionally, it has a low coefficient of thermal expansion, which helps to reduce stress on the battery during cycling and further improves its overall durability.

To produce synthetic graphite for use in lithium-ion batteries, petroleum coke or coal tar pitch is first ground into a fine powder and then heated to temperatures of around 2,800°C in the presence of an inert gas. This process transforms the carbon material into a highly ordered, crystalline structure with excellent electrochemical properties.

Overall, synthetic graphite is a highly engineered material that is ideal for use in a variety of high-performance applications, including lithium-ion batteries. Its high energy density, low resistance, and excellent thermal conductivity make it an attractive choice for use in electric vehicles, portable electronics, and other applications where high performance and reliability are critical. As demand for electric vehicles and other battery-powered devices continues to grow, the demand for high-quality synthetic graphite is likely to increase as well.

This report studies the global Synthetic Graphite for Lithium-Ion Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Synthetic Graphite for Lithium-Ion Batteries, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Synthetic Graphite for Lithium-Ion Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Synthetic Graphite for Lithium-Ion Batteries total production and demand, 2018-2029, (Tons)

Global Synthetic Graphite for Lithium-Ion Batteries total production value, 2018-2029, (USD Million)

Global Synthetic Graphite for Lithium-Ion Batteries production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Synthetic Graphite for Lithium-Ion Batteries consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Synthetic Graphite for Lithium-Ion Batteries domestic production,

consumption, key domestic manufacturers and share

Global Synthetic Graphite for Lithium-Ion Batteries production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Synthetic Graphite for Lithium-Ion Batteries production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Synthetic Graphite for Lithium-Ion Batteries production by Process production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global Synthetic Graphite for Lithium-Ion Batteries 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 GrafTech, Fangda Carbon, Showa Denko, Jilin Carbon, Graphite India, Tokai Carbon, HEG, Nippon Carbon and Datong Xincheng New Material Co., Ltd, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Synthetic Graphite for Lithium-Ion Batteries 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 Process. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Synthetic Graphite for Lithium-Ion Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Synthetic Graphite for Lithium-Ion Batteries Market, Segmentation by Type

?15?m

10-15?m

?10?m

Global Synthetic Graphite for Lithium-Ion Batteries Market, Segmentation by Process

MCMB

Soft Carbon

Hard Carbon

Companies Profiled:

GrafTech

Fangda Carbon

Showa Denko

Jilin Carbon

Graphite India

Tokai Carbon

HEG

Nippon Carbon

Datong Xincheng New Material Co., Ltd

SEC Carbon

Toray Carbon

Toyo Tanso

Teijin (Toho Tenax)

Mersen Group

Ibiden

Asbury Graphite

Key Questions Answered

1. How big is the global Synthetic Graphite for Lithium-Ion Batteries market?
2. What is the demand of the global Synthetic Graphite for Lithium-Ion Batteries market?
3. What is the year over year growth of the global Synthetic Graphite for Lithium-Ion Batteries market?
4. What is the production and production value of the global Synthetic Graphite for Lithium-Ion Batteries market?

5. Who are the key producers in the global Synthetic Graphite for Lithium-Ion Batteries market?

6. What are the growth factors driving the market demand?

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