

Global Synthetic Graphite for Lithium-Ion Batteries Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Synthetic Graphite for Lithium-Ion Batteries market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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 is a detailed and comprehensive analysis for global Synthetic Graphite for Lithium-Ion Batteries market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Process. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Synthetic Graphite for Lithium-Ion Batteries market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Synthetic Graphite for Lithium-Ion Batteries market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Synthetic Graphite for Lithium-Ion Batteries market size and forecasts, by Type and by Process, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Synthetic Graphite for Lithium-Ion Batteries market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Synthetic Graphite for Lithium-Ion Batteries

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report 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 and Graphite India, etc.

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

Market Segmentation

Synthetic Graphite for Lithium-Ion Batteries market is split by Type and by Process. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Process in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

?15?m

10-15?m

?10?m

Market segment by Process

MCMB

Soft Carbon

Hard Carbon

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Synthetic Graphite for Lithium-Ion Batteries product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Synthetic Graphite for Lithium-Ion Batteries, with price, sales, revenue and global market share of Synthetic Graphite for Lithium-Ion Batteries from 2018 to 2023.

Chapter 3, the Synthetic Graphite for Lithium-Ion Batteries competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Synthetic Graphite for Lithium-Ion Batteries breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2018 to 2029.

Chapter 5 and 6, to segment the sales by Type and process, with sales market share and growth rate by type, process, from 2018 to 2029.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value and market share for key countries in the world, from 2017

to 2022.and Synthetic Graphite for Lithium-Ion Batteries market forecast, by regions, type and process, with sales and revenue, from 2024 to 2029.

Chapter 12, market dynamics, drivers, restraints, trends, Porters Five Forces analysis, and Influence of COVID-19 and Russia-Ukraine War.

Chapter 13, the key raw materials and key suppliers, and industry chain of Synthetic Graphite for Lithium-Ion Batteries.

Chapter 14 and 15, to describe Synthetic Graphite for Lithium-Ion Batteries sales channel, distributors, customers, research findings and conclusion.

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