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Global Graphite Anode Material for Power Batteries Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Graphite Anode Material for Power Batteries market size is expected to reach $ 18900 million by 2032, rising at a market growth of 14.7% CAGR during the forecast period (2026-2032).

Graphite anode materials for power batteries refer to the graphite-based anode materials used in power batteries (lithium-ion batteries) for new energy vehicles. Characterized by a layered crystal structure that enables reversible charge and discharge through the intercalation and de-intercalation of lithium ions, these materials are currently the most mature and commercially established anode materials for power batteries.

The upstream sector primarily encompasses natural graphite ore, artificial graphite precursors (such as petroleum coke, needle coke, and coal-based coke), conductive additives, binders, chemical reagents, energy sources (electricity and natural gas), and graphitization processing resources. The midstream sector involves the production and manufacturing of graphite anode materials, comprising processes such as raw material pretreatment, crushing and classification, granulation, carbonization, graphitization, surface coating and modification, and screening and inspection, resulting in products such as natural graphite, artificial graphite, and composite graphite. The downstream sector is the lithium-ion battery industry, where these anode materials are used to manufacture power battery cells that are subsequently integrated into the electronic systems of new energy vehicles.

In 2025, the global sales volume of graphite anode materials for power batteries is projected to reach 1.819 million tons, with a production capacity of approximately 2.6 million tons; the average selling price is estimated at $3,950 per ton, and the average

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gross profit margin is expected to range between 20% and 30%.

Compared to natural graphite, artificial graphite offers superior cycle life, rate performance, and safety, making it better suited for power batteries in new energy vehicles. Key areas of technological development include high-tap-density artificial graphite, fast-charging anodes, low-expansion anodes, and silicon-carbon composite anodes. As the energy density of power batteries continues to rise, traditional graphite is approaching its theoretical capacity limit of 372 mAh/g, positioning silicon-based anodes as a primary focus for industry development. While silicon-based anodes have begun to see large-scale adoption?with a global penetration rate of approximately 6%?issues regarding expansion, cycle life, and cost mean that the prevailing technical strategy for the foreseeable future will remain a 'graphite-dominant, silicon-supplemented' approach.

This report studies the global Graphite Anode Material for Power Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Graphite Anode Material for Power Batteries 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 Graphite Anode Material for Power Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Graphite Anode Material for Power Batteries total production and demand, 2021-2032, (Kilotons)
Global Graphite Anode Material for Power Batteries total production value, 2021-2032, (USD Million)
Global Graphite Anode Material for Power Batteries production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Graphite Anode Material for Power Batteries consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Graphite Anode Material for Power Batteries domestic production, consumption, key domestic manufacturers and share
Global Graphite Anode Material for Power Batteries production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Graphite Anode Material for Power Batteries production by Type, production,

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value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Graphite Anode Material for Power Batteries production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Graphite Anode Material for Power 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 BTR, Shanshan Technology, Resonac, POSCO Chemical, Mitsubishi Chem, Nippon Carbon, Putailai (Zichen Technology), Jiangxi Zhengtuo, Sinuo New Materials, Kaijin 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 Graphite Anode Material for Power Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) 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 Graphite Anode Material for Power Batteries Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

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India

Rest of World

Global Graphite Anode Material for Power Batteries Market, Segmentation by Type:

Artificial Graphite

Natural Graphite

Global Graphite Anode Material for Power Batteries Market, Segmentation by Performance Characteristics:

High-Capacity Type

Fast-Charging Type

Long-Cycle-Life Type

Low-Swelling Type

Global Graphite Anode Material for Power Batteries Market, Segmentation by Specific Capacity:

?350mAh/g

350-355mAh/g

?355mAh/g

Global Graphite Anode Material for Power Batteries Market, Segmentation by Application:

New Energy Passenger Vehicles

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New Energy Commercial Vehicles

Others

Companies Profiled:

BTR

Shanshan Technology

Resonac

POSCO Chemical

Mitsubishi Chem

Nippon Carbon

Putailai (Zichen Technology)

Jiangxi Zhengtuo

Sinuo New Materials

Kaijin New Energy

Yicheng New Energy

Dalian Hongguang Lithium Industry

Zhongke Electric (Hunan Zhongke Xingcheng)

Shangtai Technology

Xiangfenghua

Carbon One New Energy

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Guangdong Dongdao

Hebei Kuntian

Keda New Energy

JFE Chemical

Key Questions Answered:
1. How big is the global Graphite Anode Material for Power Batteries market?
2. What is the demand of the global Graphite Anode Material for Power Batteries market?
3. What is the year over year growth of the global Graphite Anode Material for Power Batteries market?
4. What is the production and production value of the global Graphite Anode Material for Power Batteries market?
5. Who are the key producers in the global Graphite Anode Material for Power Batteries market?
6. What are the growth factors driving the market demand?

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Contents

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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4 UNITED STATES VS CHINA VS REST OF THE WORLD

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5 MARKET ANALYSIS BY TYPE

6 MARKET ANALYSIS BY PERFORMANCE CHARACTERISTICS

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7 MARKET ANALYSIS BY SPECIFIC CAPACITY

8 MARKET ANALYSIS BY APPLICATION

9 COMPANY PROFILES

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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