

Global Hard Carbon Material Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Hard Carbon Material market size was valued at USD 96.9 million in 2023 and is forecast to a readjusted size of USD 3651.5 million by 2030 with a CAGR of 67.9% during review period.

Hard carbon is a solid form of carbon that cannot be converted to graphite by heat-treatment, even at temperatures as high as 3000°C. It is also known as char, or non-graphitizing carbon. More colloquially it can be described as charcoal. Hard carbon is produced by heating carbonaceous precursors to approximately 1000°C in the absence of oxygen. Among the precursors for hard carbon are polyvinylidene chloride (PVDC), lignin and sucrose. Other precursors, such as polyvinyl chloride (PVC) and petroleum coke, produce soft carbon, or graphitizing carbon. Soft carbon can be readily converted to graphite by heating to 3000°C.

Global key players of hard carbon material include Kuraray, HiNa Battery Technology, Best Graphite, Shengquan Group, Sumitomo, etc. The top five players hold a share about 99%. China is the largest market, has a share about 67%, followed by North America and Japan, with share 25% and 4%, separately.

The Global Info Research report includes an overview of the development of the Hard Carbon Material industry chain, the market status of Li-ion Battery (Bio-based, Petroleum-based), Na-ion Battery (Bio-based, Petroleum-based), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Hard Carbon Material.

Regionally, the report analyzes the Hard Carbon Material markets in key regions. North

America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Hard Carbon Material market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Hard Carbon Material market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Hard Carbon Material industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., Bio-based, Petroleum-based).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Hard Carbon Material market.

Regional Analysis: The report involves examining the Hard Carbon Material market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Hard Carbon Material market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Hard Carbon Material:

Company Analysis: Report covers individual Hard Carbon Material manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Hard Carbon Material. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Li-ion Battery, Na-ion Battery).

Technology Analysis: Report covers specific technologies relevant to Hard Carbon Material. It assesses the current state, advancements, and potential future developments in Hard Carbon Material areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Hard Carbon Material market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Hard Carbon Material market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Bio-based

Petroleum-based

Polymer Resin

Market segment by Application

Li-ion Battery

Na-ion Battery

Major players covered

Kuraray

JFE Chemical

Kureha

Sumitomo

Stora Enso

Indigenous Energy

Shengquan Group

HiNa Battery Technology

Best Graphite

BRT

Shanshan

Xiangfenghua

Putailai

Jiangxi Zeto

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 Hard Carbon Material product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hard Carbon Material, with price, sales, revenue and global market share of Hard Carbon Material from 2019 to 2024.

Chapter 3, the Hard Carbon Material competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hard Carbon Material breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2023. and Hard Carbon Material market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

Chapter 12, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Hard Carbon Material.

Chapter 14 and 15, to describe Hard Carbon Material sales channel, distributors, customers, research findings and conclusion.

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