

# Global Carbon Graphite Market Size study, by Product (Carbon and Graphite Electrodes, Carbon and Graphite Fibers, Carbon and Graphite Powder, Others) by End-user Industry (Industrial, Aerospace, Others) and Regional Forecasts 2022-2032

<https://marketpublishers.com/r/GCB6119BE2D1EN.html>

Date: July 2024

Pages: 200

Price: US\$ 4,950.00 (Single User License)

ID: GCB6119BE2D1EN

## Abstracts

Global Carbon Graphite Market was valued at approximately USD 2.72 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 5.81% over the forecast period 2024-2032. Carbon graphite, commonly referred to simply as graphite, is a naturally occurring form of crystalline carbon that is known for its remarkable properties. It is characterized by its high thermal and electrical conductivity, excellent lubricating properties, and the ability to withstand high temperatures and chemical exposure. This material is widely used in various applications, including as a key component in batteries, particularly lithium-ion batteries, as a lubricant in industrial processes, in the production of refractory materials that can endure high temperatures, and as electrodes in steelmaking. Additionally, graphite's unique properties make it valuable in advanced technologies such as fuel cells and nuclear reactors.

Global Carbon Graphite Market is driven growth of the automotive industry and increasing demand in aerospace and defense across the world. The automotive sector significantly fuels the demand for carbon graphite materials, particularly for components such as brake pads, clutches, and gaskets. As the industry evolves, the preference for lightweight, high-performance materials grows, thereby boosting the carbon graphite market. Additionally, the aerospace and defense industries utilize carbon graphite composites for their superior strength-to-weight ratio, essential for modern fuel-efficient and advanced aircraft and defense systems. Moreover, Technological advancements present new avenues for the carbon graphite market, especially in 3D printing and additive manufacturing. These processes allow for the creation of custom components

across various industries, fostering innovation and broadening the material's application scope. However, the high production costs associated with carbon graphite, and expensive raw materials is going to impede the overall demand for the market during the forecast period 2024-2032.

The key regions considered for the Global Carbon Graphite Market study includes Asia Pacific, North America, Europe, Latin America, and Rest of the World. In 2023, the Asia-Pacific market is poised for the highest CAGR during the forecast period, driven by substantial automotive manufacturing, burgeoning renewable energy sector, and significant contributions to the global electric vehicle market. The region's focus on reducing emissions further propels the adoption of carbon graphite in lithium-ion batteries for EVs, underscoring the market's growth potential. Furthermore, the market in Asia Pacific is also anticipated to develop at the fastest rate over the forecast period 2024-2032.

Major market players included in this report are:

Sec Carbon, Limited

Entegris

Ibiden

Sinosteel Engineering and Technology Co., Ltd.

Nippon Carbon Co Ltd

Graphite India Limited

Fangda Carbon New Material Co., Ltd.

GrafTech International Limited

Schunk Se & Co. Kg

Datong Xincheng New Material Co., Ltd

The detailed segments and sub-segment of the market are explained below:

**By Product:**

Carbon and Graphite Electrodes

Carbon and Graphite Fibers

Carbon and Graphite Powder

Others

**By End-user Industry:**

Industrial

Aerospace

Others

**By Region:**

North America

U.S.

Canada

Europe

UK

Germany

France

Spain

Italy

ROE

Asia Pacific

China

India

Japan

Australia

South Korea

RoAPAC

Latin America

Brazil

Mexico

Middle East & Africa

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

### Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market

## Contents

### **CHAPTER 1. GLOBAL CARBON GRAPHITE MARKET EXECUTIVE SUMMARY**

- 1.1. Global Carbon Graphite Market Size & Forecast (2022-2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Product
  - 1.3.2. By End-user Industry
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL CARBON GRAPHITE MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL CARBON GRAPHITE MARKET DYNAMICS**

- 3.1. Market Drivers

- 3.1.1. Growth of the automotive industry
- 3.1.2. Increasing demand in aerospace and defense
- 3.1.3. Technological advancements in 3D printing
- 3.2. Market Challenges
  - 3.2.1. High production costs
  - 3.2.2. Availability of alternative materials
- 3.3. Market Opportunities
  - 3.3.1. Expansion of renewable energy sector
  - 3.3.2. Growth in demand of electric vehicle

## **CHAPTER 4. GLOBAL CARBON GRAPHITE MARKET INDUSTRY ANALYSIS**

- 4.1. Porter's 5 Force Model
  - 4.1.1. Bargaining Power of Suppliers
  - 4.1.2. Bargaining Power of Buyers
  - 4.1.3. Threat of New Entrants
  - 4.1.4. Threat of Substitutes
  - 4.1.5. Competitive Rivalry
  - 4.1.6. Futuristic Approach to Porter's 5 Force Model
  - 4.1.7. Porter's 5 Force Impact Analysis
- 4.2. PESTEL Analysis
  - 4.2.1. Political
  - 4.2.2. Economical
  - 4.2.3. Social
  - 4.2.4. Technological
  - 4.2.5. Environmental
  - 4.2.6. Legal
- 4.3. Top investment opportunity
- 4.4. Top winning strategies
- 4.5. Disruptive Trends
- 4.6. Industry Expert Perspective
- 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL CARBON GRAPHITE MARKET SIZE & FORECASTS BY PRODUCT 2022-2032**

- 5.1. Segment Dashboard
- 5.2. Global Carbon Graphite Market: Product Revenue Trend Analysis, 2022 & 2032 (USD Billion)

- 5.2.1. Carbon and Graphite Electrodes
- 5.2.2. Carbon and Graphite Fibers
- 5.2.3. Carbon and Graphite Powder
- 5.2.4. Others

## **CHAPTER 6. GLOBAL CARBON GRAPHITE MARKET SIZE & FORECASTS BY END-USER INDUSTRY 2022-2032**

- 6.1. Segment Dashboard
- 6.2. Global Carbon Graphite Market: End-user Industry Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 6.2.1. Industrial
  - 6.2.2. Aerospace
  - 6.2.3. Others

## **CHAPTER 7. GLOBAL CARBON GRAPHITE MARKET SIZE & FORECASTS BY REGION 2022-2032**

- 7.1. North America Carbon Graphite Market
  - 7.1.1. U.S. Carbon Graphite Market
    - 7.1.1.1. Product breakdown size & forecasts, 2022-2032
    - 7.1.1.2. End-user Industry breakdown size & forecasts, 2022-2032
  - 7.1.2. Canada Carbon Graphite Market
- 7.2. Europe Carbon Graphite Market
  - 7.2.1. U.K. Carbon Graphite Market
  - 7.2.2. Germany Carbon Graphite Market
  - 7.2.3. France Carbon Graphite Market
  - 7.2.4. Spain Carbon Graphite Market
  - 7.2.5. Italy Carbon Graphite Market
  - 7.2.6. Rest of Europe Carbon Graphite Market
- 7.3. Asia-Pacific Carbon Graphite Market
  - 7.3.1. China Carbon Graphite Market
  - 7.3.2. India Carbon Graphite Market
  - 7.3.3. Japan Carbon Graphite Market
  - 7.3.4. Australia Carbon Graphite Market
  - 7.3.5. South Korea Carbon Graphite Market
  - 7.3.6. Rest of Asia Pacific Carbon Graphite Market
- 7.4. Latin America Carbon Graphite Market
  - 7.4.1. Brazil Carbon Graphite Market



- 7.4.2. Mexico Carbon Graphite Market
- 7.4.3. Rest of Latin America Carbon Graphite Market
- 7.5. Middle East & Africa Carbon Graphite Market
  - 7.5.1. Saudi Arabia Carbon Graphite Market
  - 7.5.2. South Africa Carbon Graphite Market
  - 7.5.3. Rest of Middle East & Africa Carbon Graphite Market

## **CHAPTER 8. COMPETITIVE INTELLIGENCE**

- 8.1. Key Company SWOT Analysis
  - 8.1.1. Company
  - 8.1.2. Company
  - 8.1.3. Company
- 8.2. Top Market Strategies
- 8.3. Company Profiles
  - 8.3.1. Sec Carbon, Limited
    - 8.3.1.1. Key Information
    - 8.3.1.2. Overview
    - 8.3.1.3. Financial (Subject to Data Availability)
    - 8.3.1.4. Product Summary
    - 8.3.1.5. Market Strategies
  - 8.3.2. Entegris
  - 8.3.3. Ibidem
  - 8.3.4. Sinosteel Engineering and Technology Co., Ltd.
  - 8.3.5. Nippon Carbon Co Ltd.
  - 8.3.6. Graphite India Limited
  - 8.3.7. Fangda Carbon New Material Co., Ltd.
  - 8.3.8. GrafTech International Limited
  - 8.3.9. Schunk Se & Co. Kg
  - 8.3.10. Datong Xincheng New Material Co., Ltd.

## **CHAPTER 9. RESEARCH PROCESS**

- 9.1. Research Process
  - 9.1.1. Data Mining
  - 9.1.2. Analysis
  - 9.1.3. Market Estimation
  - 9.1.4. Validation
  - 9.1.5. Publishing

## 9.2. Research Attributes

## List Of Tables

### LIST OF TABLES

TABLE 1. Global Carbon Graphite market, report scope

TABLE 2. Global Carbon Graphite market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Carbon Graphite market estimates & forecasts by Product 2022-2032 (USD Billion)

TABLE 4. Global Carbon Graphite market estimates & forecasts by End-user Industry 2022-2032 (USD Billion)

TABLE 5. Global Carbon Graphite market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 6. Global Carbon Graphite market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global Carbon Graphite market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Carbon Graphite market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Carbon Graphite market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Carbon Graphite market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Carbon Graphite market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Carbon Graphite market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Carbon Graphite market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Carbon Graphite market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Carbon Graphite market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Carbon Graphite market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Carbon Graphite market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Carbon Graphite market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Carbon Graphite market estimates & forecasts by segment  
2022-2032 (USD Billion)

TABLE 20. Canada Carbon Graphite market estimates & forecasts by segment  
2022-2032 (USD Billion)

.....

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Carbon Graphite market, research methodology
- FIG 2. Global Carbon Graphite market, market estimation techniques
- FIG 3. Global market size estimates & forecast methods
- FIG 4. Global Carbon Graphite market, key trends 2023
- FIG 5. Global Carbon Graphite market, growth prospects 2022-2032
- FIG 6. Global Carbon Graphite market, porters 5 force model
- FIG 7. Global Carbon Graphite market, PESTEL analysis
- FIG 8. Global Carbon Graphite market, value chain analysis
- FIG 9. Global Carbon Graphite market by segment, 2022 & 2032 (USD Billion)
- FIG 10. Global Carbon Graphite market by segment, 2022 & 2032 (USD Billion)
- FIG 11. Global Carbon Graphite market by segment, 2022 & 2032 (USD Billion)
- FIG 12. Global Carbon Graphite market by segment, 2022 & 2032 (USD Billion)
- FIG 13. Global Carbon Graphite market by segment, 2022 & 2032 (USD Billion)
- FIG 14. Global Carbon Graphite market, regional snapshot 2022 & 2032
- FIG 15. North America Carbon Graphite market 2022 & 2032 (USD Billion)
- FIG 16. Europe Carbon Graphite market 2022 & 2032 (USD Billion)
- FIG 17. Asia pacific Carbon Graphite market 2022 & 2032 (USD Billion)
- FIG 18. Latin America Carbon Graphite market 2022 & 2032 (USD Billion)
- FIG 19. Middle East & Africa Carbon Graphite market 2022 & 2032 (USD Billion)
- FIG 20. Global Carbon Graphite market, company market share analysis (2023)

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