

Graphite Electrodes Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global graphite electrodes market size reached US\$ 6.2 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 8.8 Billion by 2028, exhibiting a growth rate (CAGR) of 5.9% during 2023-2028.

Graphite electrodes are large cylindrical structures made up of petroleum needle coke and coal tar pitch. They conduct electrical energy from the power source and convert it into heat which is used to melt scrap metal. Since graphite has high thermal conductivity and low electrical resistance, these electrodes can generate heat up to the temperature of 1600 degree Celsius. They are primarily used in Electric Arc Furnaces (EAF) and Blast Oxygen Furnaces (BOF) for steelmaking and smelting ferrous alloys. These electrodes help in the manufacturing of high-quality products that can withstand high heat dissipation have high electrical conductivity and exhibit exceptional mechanical strength.

The rising demand for graphite electrodes in steel-oriented sectors such as construction, automotive, infrastructure, and aerospace and defense are the key factor driving the market. The increasing requirement of anti-corrosive products for oil and petroleum wells and pipelines in the oil and gas sector has further enhanced the use of EAF, and subsequently catalyzed the demand for these electrodes. Additionally, the increasing requirement for Ultra-High Power (UHP) graphite electrodes is another market trend that is projected to drive the market. UHP has a higher thermal and electrical conductivity and can swiftly melt scrap to manufacture steel. It is therefore highly preferred by steel manufacturers, and its demand is expected to grow substantially in the coming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global graphite electrodes market report, along with forecasts at the global and regional level from 2023-2028. Our report has categorized the market based on product type and application.

Breakup by Product Type:

- Ultra-high Power (UHP)
- High Power (HP)
- Regular Power (RP)

Breakup by Application:

- Electric Arc Furnace
- Ladle Furnace
- Non-Steel Application

Breakup by Region:

- Asia Pacific
- Europe
- North America
- Middle East and Africa
- Latin America

Competitive Landscape:

The report has also analysed the competitive landscape of the market with some of the key players being Energoprom Group, Fanda Carbon New Material Co. LTD, Graftech International, HEG Limited, Nantong Yangzi Carbon Co. Ltd, Graphite India, SHOWA DENKO, Beijing Great Wall Co., Ltd., Nippon Carbon Co Ltd., Ameri-Source Specialty Products, Tokai Carbon Co., Ltd, Schutzcarbon, etc

IMARC Group's latest report provides a deep insight into the global graphite electrodes market covering all its essential aspects. This ranges from macro overview of the market to micro details of the industry performance, recent trends, key market drivers and challenges, SWOT analysis, Porter's five forces analysis, value chain analysis, etc. This report is a must-read for entrepreneurs, investors, researchers, consultants,

business strategists, and all those who have any kind of stake or are planning to foray into the global graphite electrodes market in any manner.

Key Questions Answered in This Report:

How has the global graphite electrodes market performed so far and how will it perform in the coming years?

What are the key regional markets in the global graphite electrodes industry?

What has been the impact of COVID-19 on the global graphite electrodes industry?

What is the breakup of the market based on the product type?

What is the breakup of the market based on the application?

What are the various stages in the value chain of the global graphite electrodes industry?

What are the key driving factors and challenges in the global graphite electrodes industry?

What is the structure of the global graphite electrodes industry and who are the key players?

What is the degree of competition in the global graphite electrodes industry?

What are the profit margins in the global graphite electrodes industry?

Contents

1 PREFACE

2 SCOPE AND METHODOLOGY

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
 - 2.3.1 Primary Sources
 - 2.3.2 Secondary Sources
- 2.4 Market Estimation
 - 2.4.1 Bottom-Up Approach
 - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

3 EXECUTIVE SUMMARY

4 INTRODUCTION

- 4.1 Overview
- 4.2 Key Industry Trends

5 GLOBAL GRAPHITE ELECTRODES MARKET

- 5.1 Market Overview
- 5.2 Market Performance
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Product Type
- 5.5 Market Breakup by Application
- 5.6 Market Breakup by Region
- 5.7 Market Forecast

6 MARKET BREAKUP BY PRODUCT TYPE

- 6.1 Ultra-high Power (UHP)
 - 6.1.1 Market Trends
 - 6.1.2 Market Forecast
- 6.2 High Power (HP)

- 6.2.1 Market Trends
- 6.2.2 Market Forecast
- 6.3 Regular Power (RP)
 - 6.3.1 Market Trends
 - 6.3.2 Market Forecast

7 MARKET BREAKUP BY APPLICATION

- 7.1 Electric Arc Furnace
 - 7.1.1 Market Trends
 - 7.1.2 Market Forecast
- 7.2 Ladle Furnace
 - 7.2.1 Market Trends
 - 7.2.2 Market Forecast
- 7.3 Non-Steel Application
 - 7.3.1 Market Trends
 - 7.3.2 Market Forecast

8 MARKET BREAKUP BY REGION

- 8.1 Asia Pacific
 - 8.1.1 Market Trends
 - 8.1.2 Market Forecast
- 8.2 Europe
 - 8.2.1 Market Trends
 - 8.2.2 Market Forecast
- 8.3 North America
 - 8.3.1 Market Trends
 - 8.3.2 Market Forecast
- 8.4 Middle East and Africa
 - 8.4.1 Market Trends
 - 8.4.2 Market Forecast
- 8.5 Latin America
 - 8.5.1 Market Trends
 - 8.5.2 Market Forecast

9 SWOT ANALYSIS

- 9.1 Overview

- 9.2 Strengths
- 9.3 Weaknesses
- 9.4 Opportunities
- 9.5 Threats

10 VALUE CHAIN ANALYSIS

11 PORTERS FIVE FORCES ANALYSIS

- 11.1 Overview
- 11.2 Bargaining Power of Buyers
- 11.3 Bargaining Power of Suppliers
- 11.4 Degree of Competition
- 11.5 Threat of New Entrants
- 11.6 Threat of Substitutes

12 PRICE ANALYSIS

13 COMPETITIVE LANDSCAPE

- 13.1 Market Structure
- 13.2 Key Players
- 13.3 Profiles of Key Players
 - 13.3.1 Energoprom Group
 - 13.3.2 Fanda Carbon New Material Co. LTD
 - 13.3.3 Graftech International
 - 13.3.4 HEG Limited
 - 13.3.5 Nantong Yangzi Carbon Co. Ltd
 - 13.3.6 Graphite India
 - 13.3.7 SHOWA DENKO
 - 13.3.8 Beijing Great Wall Co., Ltd
 - 13.3.9 Nippon Carbon Co Ltd
 - 13.3.10 Ameri-Source Specialty Products
 - 13.3.11 Tokai Carbon Co., Ltd
 - 13.3.12 Schutzcarbon

List Of Tables

LIST OF TABLES

Table 1: Global: Graphite Electrodes Market: Key Industry Highlights, 2022 and 2028

Table 2: Global: Graphite Electrodes Market Forecast: Breakup by Product Type (in Million US\$), 2023-2028

Table 3: Global: Graphite Electrodes Market Forecast: Breakup by Application (in Million US\$), 2023-2028

Table 4: Global: Graphite Electrodes Market Forecast: Breakup by Region (in Million US\$), 2023-2028

Table 5: Global: Graphite Electrodes Market Structure

Table 6: Global: Graphite Electrodes Market: Key Players

List Of Figures

LIST OF FIGURES

- Figure 1: Global: Graphite Electrodes Market: Major Drivers and Challenges
- Figure 2: Global: Graphite Electrodes Market: Sales Value (in Billion US\$), 2017-2022
- Figure 3: Global: Graphite Electrodes Market: Breakup by Product Type (in %), 2022
- Figure 4: Global: Graphite Electrodes Market: Breakup by Application (in %), 2022
- Figure 5: Global: Graphite Electrodes Market: Breakup by Region (in %), 2022
- Figure 6: Global: Graphite Electrodes Market Forecast: Sales Value (in Billion US\$), 2023-2028
- Figure 7: Global: Graphite Electrodes Industry: SWOT Analysis
- Figure 8: Global: Graphite Electrodes Industry: Value Chain Analysis
- Figure 9: Global: Graphite Electrodes Industry: Porter's Five Forces Analysis
- Figure 10: Global: Graphite Electrodes (Ultra-high Power) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 11: Global: Graphite Electrodes (Ultra-high Power) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 12: Global: Graphite Electrodes (High Power) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 13: Global: Graphite Electrodes (High Power) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 14: Global: Graphite Electrodes (Regular Power) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 15: Global: Graphite Electrodes (Regular Power) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 16: Global: Graphite Electrodes (Electric Arc Furnace) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 17: Global: Graphite Electrodes (Electric Arc Furnace) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 18: Global: Graphite Electrodes (Ladle Furnace) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 19: Global: Graphite Electrodes (Ladle Furnace) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 20: Global: Graphite Electrodes (Non-Steel Application) Market: Sales Value (in Million US\$), 2017 & 2022
- Figure 21: Global: Graphite Electrodes (Non-Steel Application) Market Forecast: Sales Value (in Million US\$), 2023-2028
- Figure 22: Asia Pacific: Graphite Electrodes Market: Sales Value (in Million US\$), 2017

& 2022

Figure 23: Asia Pacific: Graphite Electrodes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 24: Europe: Graphite Electrodes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 25: Europe: Graphite Electrodes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 26: North America: Graphite Electrodes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 27: North America: Graphite Electrodes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 28: Middle East and Africa: Graphite Electrodes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 29: Middle East and Africa: Graphite Electrodes Market Forecast: Sales Value (in Million US\$), 2023-2028

Figure 30: Latin America: Graphite Electrodes Market: Sales Value (in Million US\$), 2017 & 2022

Figure 31: Latin America: Graphite Electrodes Market Forecast: Sales Value (in Million US\$), 2023-2028

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