

Global HP Graphite Electrodes Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global HP Graphite Electrodes market size is expected to reach \$ 7206 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

HP graphite electrodes (High Power graphite electrodes) are premium-grade conductive elements designed for electric arc furnace steelmaking, capable of carrying higher current densities than regular power electrodes. They are manufactured from petroleum coke, needle coke, and coal tar pitch through a series of strict production processes including calcination, mixing, forming, baking, graphitization, and machining. HP graphite electrodes typically operate at current densities of 18-25 A/cm², suitable for medium-load steel production and large-capacity ladle furnaces. Key specifications include diameters ranging from 300mm to 600mm, with corresponding threaded nipples for electrode joining. These electrodes serve as essential consumables in electric arc furnaces for steel scrap melting, ladle refining furnaces for secondary metallurgy, and submerged arc furnaces for ferroalloy production. From a value chain perspective, upstream includes needle coke and petroleum coke suppliers; midstream involves electrode manufacturing through the UHP/HP/RP grade production process; downstream demand spans steel mills, foundries, and ferroalloy producers. In 2025, the average selling price is approximately US\$2,650 per ton, global sales volume is about 1,519k tons, and gross margins generally range from 15% to 25%, driven by needle coke costs, energy prices, and steel industry demand cycles.

The HP graphite electrodes market is experiencing stable growth driven by the global steel industry's transition toward electric arc furnace steelmaking and the expansion of ladle refining furnace applications.

Industry Shift Toward Electric Arc Furnaces

Electric arc furnace steelmaking continues to gain market share globally as the steel industry pursues lower carbon emissions compared to traditional blast furnace-basic oxygen furnace routes. This transition creates sustained demand for graphite electrodes across all power grades. HP electrodes, positioned between RP and UHP grades, serve a critical middle segment for medium-capacity furnaces and ladle refining operations.

Price Dynamics and Raw Material Costs

Graphite electrode pricing remains closely tied to needle coke availability and energy costs. The market has shown signs of stabilizing in 2025, with domestic prices in China ranging from RMB 14,500-22,400 per ton. HP electrode prices are generally higher than RP grade but more affordable than UHP, offering a cost-performance balance for medium-load applications. Industry observers note that price stability reflects balanced supply-demand dynamics following previous market fluctuations.

Regional Production Landscape

Asia-Pacific dominates global graphite electrode production, with China serving as the largest manufacturing hub for HP and other graphite electrode grades. The region's well-established carbon and graphite supply chain enables competitive production costs. However, manufacturers in other regions maintain capabilities for premium-grade electrodes serving specialized applications.

End-User Demand Drivers

Steel producers represent the primary consumers of HP graphite electrodes, utilizing them in electric arc furnaces for scrap melting and in ladle furnaces for secondary steel refining. The growing emphasis on steel quality and the expansion of special steel production support demand for HP-grade electrodes that offer reliable conductivity and oxidation resistance during extended furnace campaigns.

This report studies the global HP Graphite Electrodes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for HP Graphite Electrodes 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 HP Graphite Electrodes that

contribute to its increasing demand across many markets.

Highlights and key features of the study

Global HP Graphite Electrodes total production and demand, 2021-2032, (Kilotons)

Global HP Graphite Electrodes total production value, 2021-2032, (USD Million)

Global HP Graphite Electrodes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global HP Graphite Electrodes consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: HP Graphite Electrodes domestic production, consumption, key domestic manufacturers and share

Global HP Graphite Electrodes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global HP Graphite Electrodes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global HP Graphite Electrodes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global HP Graphite Electrodes 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 Showa Denko K.K., Fangda Carbon New Material Co., Ltd., GrafTech International Ltd., Graphite India Limited (GIL), HEG Limited, Tokai Carbon Co., Ltd., SEC Carbon, Ltd., Energoprom Group, Jilin Carbon Co., Ltd., Kaifeng Carbon Co., Ltd., 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 HP Graphite Electrodes 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 HP Graphite Electrodes Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global HP Graphite Electrodes Market, Segmentation by Type:

Regular Power (RP) Graphite Electrode

High Power (HP) Graphite Electrode

Ultra High Power (UHP) Graphite Electrode

Global HP Graphite Electrodes Market, Segmentation by Size:

300-400 mm

400-500 mm

500-600 mm

Above 600 mm

Global HP Graphite Electrodes Market, Segmentation by Current Density:

- Low Density (
- Medium Density (18-25 A/cm?)
- High Density (> 25 A/cm?)

Global HP Graphite Electrodes Market, Segmentation by Application:

- Electric Arc Furnace Steel
- ladle Furnaces
- Yellow Phosphorus Furnace
- Industrial Silicon Furnace
- Others

Companies Profiled:

- Showa Denko K.K.
- Fangda Carbon New Material Co., Ltd.
- GrafTech International Ltd.
- Graphite India Limited (GIL)
- HEG Limited
- Tokai Carbon Co., Ltd.
- SEC Carbon, Ltd.
- Energoprom Group

Jilin Carbon Co., Ltd.

Kaifeng Carbon Co., Ltd.

Carbo Graphite

Liaoning Dan Carbon Group

Jialong New Materials

Henan Changxing Refractory Material

Hebei Sanlong Carbon Products

Datong Xincheng New Materials

Key Questions Answered:

1. How big is the global HP Graphite Electrodes market?
2. What is the demand of the global HP Graphite Electrodes market?
3. What is the year over year growth of the global HP Graphite Electrodes market?
4. What is the production and production value of the global HP Graphite Electrodes market?
5. Who are the key producers in the global HP Graphite Electrodes market?
6. What are the growth factors driving the market demand?

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