

Global Graphite Electrode Rod Competitive Landscape Professional Research Report 2025

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Abstracts

Market Overview

According to DIResearch's in-depth investigation and research, the global Graphite Electrode Rod market size will reach 7,804.69 Million USD in 2025 and is projected to reach 11,092.27 Million USD by 2032, with a CAGR of 5.15% (2025-2032). Notably, the China Graphite Electrode Rod market has changed rapidly in the past few years. By 2025, China's market size is expected to be Million USD, representing approximately % of the global market share.

Research Summary

A graphite electrode rod is a cylindrical component made of high-quality graphite material, typically used in electric arc furnaces for the production of steel and other metals. Graphite electrodes play a crucial role in the steelmaking process by conducting electrical current into the furnace, where extreme temperatures cause the raw materials to melt and transform into molten metal. The choice of graphite for these electrodes is due to its high electrical conductivity, thermal resistance, and mechanical strength, essential properties for withstanding the harsh conditions within the furnace. During the steelmaking process, the graphite electrode undergoes significant heat and wear, making its quality and composition crucial for efficient and reliable operation. Graphite electrode rods are available in various sizes to accommodate different furnace capacities and are a critical component in the production of high-quality steel in modern metallurgical processes.

The major global manufacturers of Graphite Electrode Rod include Showa Denko K.K, FANGDA CARBON, GrafTech, Graphite India Limited (GIL), HEG Limited, Tokai

Carbon, Jilin Carbon, Yangzi Carbon, Kaifeng Carbon, SEC, Energoprom Group, Nippon Carbon, etc. The global players competition landscape in this report is divided into three tiers. The first tier comprises global leading enterprises that command a substantial market share, hold a dominant industry position, possess strong competitiveness and influence, and generate significant revenue. The second tier includes companies with a notable market presence and reputation; these firms actively follow industry leaders in product, service, or technological innovation and maintain a moderate revenue scale. The third tier consists of smaller companies with limited market share and lower brand recognition, primarily focused on local markets and generating comparatively lower revenue.

This report studies the market size, price trends and future development prospects of Graphite Electrode Rod. Focus on analysing the market share, product portfolio, prices, sales, revenue and gross profit margin of global major manufacturers, as well as the market status and trends of different product types and applications in the global Graphite Electrode Rod market. The report data covers historical data from 2020 to 2024, based year in 2025 and forecast data from 2026 to 2032.

The regions and countries in the report include North America, Europe, China, APAC (excl. China), Latin America and Middle East and Africa, covering the Graphite Electrode Rod market conditions and future development trends of key regions and countries, combined with industry-related policies and the latest technological developments, analyze the development characteristics of Graphite Electrode Rod industries in various regions and countries, help companies understand the development characteristics of each region, help companies formulate business strategies, and achieve the ultimate goal of the company's global development strategy.

The data sources of this report mainly include the National Bureau of Statistics, customs databases, industry associations, corporate financial reports, third-party databases, etc. Among them, macroeconomic data mainly comes from the National Bureau of Statistics, International Economic Research Organization; industry statistical data mainly come from industry associations; company data mainly comes from interviews, public information collection, third-party reliable databases, and price data mainly comes from various markets monitoring database.

Global Key Manufacturers of Graphite Electrode Rod Include:

Showa Denko K.K

FANGDA CARBON

GrafTech

Graphite India Limited (GIL)

HEG Limited

Tokai Carbon

Jilin Carbon

Yangzi Carbon

Kaifeng Carbon

SEC

Energoprom Group

Nippon Carbon

Graphite Electrode Rod Product Segment Include:

Regular Power (RP) Graphite Electrodes

High Power (HP) Graphite Electrodes

Ultra High Power (UHP) Graphite Electrodes

Graphite Electrode Rod Product Application Include:

Electric ARC Furnace Steel

Others

Chapter Scope

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