

# Needle Coke Market Supporting Battery Production with High-Quality Carbon Materials for Energy Storage | 2025 - 2034

*Needle Coke: Essential for high-performance electrodes in steelmaking and lithium-ion batteries; shaping the future of energy and manufacturing.*

CALIFORNIA, CA, UNITED STATES,  
February 14, 2025 /EINPresswire.com/  
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[Needle Coke Market](#) (2025-2034)  
(2025-2034)



Needle Coke Market

The needle coke market was valued at approximately USD 4.43 billion in 2024. Projections indicate that the market will reach around USD 6.66 billion by 2034.

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Needle Coke: Rising demand from the steel and lithium-ion battery industries, driven by growth in EV production and renewable energy storage.”

*Exactitude Consultancy*

The Needle Coke Market is experiencing growth due to the rising demand for high-quality needle coke in the production of lithium-ion batteries and electrodes for electric vehicles (EVs). As the EV market expands, so does the need for efficient energy storage solutions, driving demand for needle coke as a key raw material. The increasing focus on sustainable energy sources and advancements in battery technologies are further propelling this market forward. Additionally, the growing industrial applications of needle coke in steel

manufacturing and other sectors contribute to its expanding market presence. Overall, this market reflects significant potential as industries shift towards greener technologies.

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主要国家和地区名称: Japanese (日本), Korea (韩国), China (中国), French (Aiguille de coke), German (Nadelkoks), and Italy (Coke ad ago), etc.

#### Needle Coke Market Dynamics:

##### Demand Drivers:

Increasing demand for needle coke in the production of graphite electrodes for electric arc furnaces (EAF) in the steel industry.

Growth in the electric vehicle (EV) market, driving the need for lithium-ion battery anodes.

##### Restraints:

Fluctuations in raw material prices impacting production costs.

Environmental regulations affecting needle coke manufacturing processes.

##### Opportunities:

Rising investments in green steel production using EAFs, boosting graphite electrode demand.

Innovations in battery technology, expanding the application of needle coke in energy storage.

##### Challenges:

Limited supply of premium-grade needle coke, leading to market imbalance.

Competition from synthetic graphite alternatives in battery manufacturing.

主要生产商名称: Phillips 66, Mitsubishi Chemical Corporation, JXTG Holdings, Inc., Baotailong New Material Co., Ltd., Indian Oil Corporation Ltd., Bao-steel Group, C-Chem Co., Ltd., Seadrift Coke LP, Sinopec Shanghai Petrochemical Company Limited, Shanxi Hongte Coal Chemical Co., Ltd., Sinosteel Anshan Research Institute of Thermo-Energy Co., Ltd., PetroChina International Jinzhou Petrochemical Co., Ltd., Shijiazhuang Deli Chemical Co., Showa Denko, SGL Carbon, GrafTech International, Nippon Carbon, Tokai Carbon, Graphite India Ltd., Sumitomo Corporation and other.

约 10-25% 的产能用于生产其他类型的焦炭

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The Global Needle Coke Market segments and Market Data Break Down are illuminated below:

By Type:

Petroleum-Based Needle Coke: Derived from heavy residual oils during crude oil refining.

Coal-Based Needle Coke: Produced from coal tar, a by-product of coke production.

By Grade:

Super-Premium Grade: Characterized by low sulfur content and exceptional properties such as low puffing rate and low coefficient of thermal expansion.

Premium Grade: Offers a balance between performance and cost, suitable for various industrial applications.

Intermediate Grade: Provides adequate performance for standard applications.

By Application:

Graphite Electrodes: Utilized in electric arc furnaces for steel production.

Lithium-Ion Battery Anodes: Used in the production of anode materials for batteries.

Silicon Metal and Ferroalloys: Applied in the manufacturing of silicon metals and ferroalloys.

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Region Included are: North America (United States, Canada, and Mexico), Europe (Germany, France, UK, Russia, and Italy), Asia Pacific (China, Japan, Korea, India, and Southeast Asia), South America (Brazil, Argentina, Colombia), Middle East & Africa (Saudi Arabia, UAE, Egypt, Nigeria, and South Africa)

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Chapter 01 - Needle Coke Executive Summary

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Chapter 06 - Global Needle Coke Market Segmentation (e.g. Type, Application)

Chapter 07 - Key and Emerging Countries Analysis Worldwide Needle Coke Market

Chapter 08 - Global Needle Coke Market Structure & worth Analysis

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In order to better understand market conditions five forces analysis is conducted that includes the Bargaining power of buyers, Bargaining power of suppliers, Threat of new entrants, Threat of substitutes, and Threat of rivalry.

Political (Political policy and stability as well as trade, fiscal, and taxation policies)

Economical (Interest rates, employment or unemployment rates, raw material costs, and foreign exchange rates)

Social (Changing family demographics, education levels, cultural trends, attitude changes, and changes in lifestyles)

Technological (Changes in digital or mobile technology, automation, research, and development)

Legal (Employment legislation, consumer law, health, and safety, international as well as trade regulation and restrictions)

Environmental (Climate, recycling procedures, carbon footprint, waste disposal, and sustainability)

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smart home Market: The global smart home market was valued at approximately USD 127.67 billion in 2024. Projections indicate significant growth, with the market expected to reach around USD 1,404.59 billion by 2034, reflecting a compound annual growth rate (CAGR) of approximately 27.10% over the forecast period from 2025 to 2034.

<https://exactitudeconsultancy.com/reports/45523/smart-home-market>

Ultra-Low-Power Microcontroller Market: The global ultra-low-power microcontroller market, valued at approximately USD 5.12 billion in 2024, is expected to experience substantial growth driven by increasing demand for energy-efficient devices. By 2034, the market is projected to reach an estimated USD 16 billion, reflecting a CAGR of 10.2% during the forecast period (2025–2034).

<https://exactitudeconsultancy.com/reports/22726/ultra-low-power-microcontroller-market>

Solid-State Battery Market: The global solid state battery market size was valued at USD 0.65 billion in 2020, and projected to reach USD 10.35 billion by 2029, with a CAGR of 36.01% from 2022 to 2029.

<https://exactitudeconsultancy.com/reports/45722/solid-state-battery-market>

LED Drivers Market: LED Drivers Market is valued at \$4.7 billion in 2024, with expectations to reach around \$7.9 billion by 2034, reflecting a CAGR of approximately 5.2%

<https://exactitudeconsultancy.com/reports/45752/led-drivers-market>

All-Terrain Cranes Market: The all-terrain cranes market is valued at approximately \$11.5 billion in 2024, with expectations to grow significantly, reaching around \$19.2 billion by 2034.

<https://exactitudeconsultancy.com/reports/45825/all-terrain-cranes-market>

Autoclave Indicator Tape Market: Autoclave Indicator Tape Market size is expected to be worth around \$200 million by 2034, from \$120 million in 2024, growing at a CAGR of 5.5% (2025-2034)

<https://exactitudeconsultancy.com/reports/45872/autoclave-indicator-tape-market>

Cold Storage Market: Cold Storage Market in terms of revenue was estimated to be worth at \$200 billion in 2024 & is poised to reach \$600 billion by 2034, growing at a CAGR 11%

<https://exactitudeconsultancy.com/reports/45993/cold-storage-market>

Driver Assistance System Market: The global Driver Assistance System (DAS) market is projected to reach USD 73 Billion by 2030, growing at an impressive CAGR of 11.0% from 2023 to 2030.

<https://exactitudeconsultancy.com/reports/45468/driver-assistance-system-market>

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