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Global Petroleum Coke for EV Batteries Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Petroleum Coke for EV Batteries market size is expected to reach $ million by 2029, rising at a market growth of % CAGR during the forecast period (2023-2029).

Petroleum coke (petcoke) is a byproduct of the oil refining process and is used as a fuel source in a variety of industrial applications. However, recent research has shown that petcoke can also be a useful material in the production of electric vehicle (EV) batteries.

Petcoke is a high-carbon, low-ash fuel that is produced by heating heavy crude oil to high temperatures in a process called coking. The resulting material is a hard, porous solid that can be used as a fuel source in power generation and other industrial processes.

In recent years, researchers have been exploring the use of petcoke as a source of carbon for the production of EV batteries. This is because petcoke contains a high concentration of graphitic carbon, which is an essential component of the anode material in lithium-ion batteries.

To produce anodes for lithium-ion batteries, the petcoke is first ground into a fine powder and then mixed with a binder and other additives to create a slurry. The slurry is then coated onto a copper foil substrate and dried to form a solid anode material.

One of the key advantages of using petcoke as a source of carbon for EV batteries is its low cost. As a byproduct of the oil refining process, petcoke is readily available and relatively inexpensive compared to other sources of graphite, such as natural graphite or synthetic graphite.

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Additionally, petcoke has a high degree of graphitization, meaning that it has a high degree of crystalline structure, which is ideal for use in high-performance battery applications. This results in anodes that have high capacity, low resistance, and excellent cycle life.

However, there are also some challenges associated with using petcoke as a source of carbon for EV batteries. One of these is the presence of impurities, such as sulfur and heavy metals, which can have a negative impact on battery performance and reliability. To address this issue, researchers are exploring new methods for purifying and refining petcoke to reduce the level of impurities and improve its suitability for use in EV batteries.

Overall, petcoke is a promising source of carbon for use in lithium-ion batteries, and ongoing research is likely to further improve its performance and reduce its cost. As the demand for electric vehicles continues to grow, the use of petcoke in battery production could play an important role in meeting this demand and helping to reduce greenhouse gas emissions from transportation.

This report studies the global Petroleum Coke for EV Batteries production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Petroleum Coke for EV Batteries, and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Petroleum Coke for EV Batteries that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Petroleum Coke for EV Batteries total production and demand, 2018-2029, (Tons)

Global Petroleum Coke for EV Batteries total production value, 2018-2029, (USD Million)

Global Petroleum Coke for EV Batteries production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Petroleum Coke for EV Batteries consumption by region & country, CAGR,

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2018-2029 & (Tons)

U.S. VS China: Petroleum Coke for EV Batteries domestic production, consumption, key domestic manufacturers and share

Global Petroleum Coke for EV Batteries production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Petroleum Coke for EV Batteries production by Type, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Petroleum Coke for EV Batteries production by Form production, value, CAGR, 2018-2029, (USD Million) & (Tons)

This reports profiles key players in the global Petroleum Coke for EV Batteries 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 Phillips 66, GrafTech, Eneos, Sumitomo Corporation, CNPC Jinzhou Petrochemical, Sinopec, Shandong Yida New Materials, Liaoning Baolai and Shandong Jingyang, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals, COVID-19 and Russia-Ukraine War Influence.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Petroleum Coke for EV Batteries market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/Ton) by manufacturer, by Type, and by Form. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Petroleum Coke for EV Batteries Market, By Region:

United States

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China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Petroleum Coke for EV Batteries Market, Segmentation by Type

Sulfur Content

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