

Global Petroleum Coke for EV Batteries Market 2023 by Manufacturers, Regions, Type and Application, Forecast to 2029

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Abstracts

According to our (Global Info Research) latest study, the global Petroleum Coke for EV Batteries market size was valued at USD million in 2022 and is forecast to a readjusted size of USD million by 2029 with a CAGR of % during review period. The influence of COVID-19 and the Russia-Ukraine War were considered while estimating market sizes.

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.

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 is a detailed and comprehensive analysis for global Petroleum Coke for EV Batteries market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Form. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2023, are provided.

Key Features:

Global Petroleum Coke for EV Batteries market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Petroleum Coke for EV Batteries market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Petroleum Coke for EV Batteries market size and forecasts, by Type and by Form, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2018-2029

Global Petroleum Coke for EV Batteries market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2018-2023

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Petroleum Coke for EV Batteries

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report 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 and CNPC Jinzhou Petrochemical, etc.

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

Market Segmentation

Petroleum Coke for EV Batteries market is split by Type and by Form. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Form in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Sulfur Content

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