

## **Calcined Petroleum Coke Market Growth Analysis - Market Size, Share, Forecast Trends and Outlook Report (2025-2034)**

Market Report | 2025-07-28 | 175 pages | EMR Inc.

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### **Report description:**

The global calcined petroleum coke market is expected to grow at a CAGR of 3.20% during the period 2025-2034.

Global Calcined Petroleum Coke Market Likely to be Driven by Use in Aluminium and Steel Industries

The global market for calcined petroleum coke is expected to be driven by applications in industries such as aluminium, steel and titanium dioxide . Titanium dioxide is used as a pigment for paint, plastics, sunscreens and food coloring. Key markets are expected to be North America, Europe and Asia. In 2019, top exporters of calcined petroleum coke were USA, United Kingdom, China, Japan and Germany, while top importers were India, China, Netherlands, Spain, and United Arab Emirates.

India's aluminium production is expected to remain robust and demand for the metal is expected to grow owing to new applications. Aluminium is cheaper than copper, and has superior weight to strength ratio, corrosion resistance, formability, dampness, etc. Proposed reforms by the Government of India, such as development of Smart Cities, Rural Electrification, emphasis on renewable energy projects under the National Electricity Policy have increased aluminium use. As demand for aluminium increases across businesses, the demand for calcined petroleum coke is also expected to increase in the country.

Calcined petroleum coke is an essential element in the production of aluminium. Calcined petroleum coke is made by heating high-quality raw green petroleum coke to temperatures ranging from 1200 to 1350 degrees Celsius (2192 to 2460 degrees Fahrenheit) in rotary kilns. Through these temperatures, excess moisture is removed, all remaining hydrocarbons extracted, and the crystalline structure of the coke modified, thus, a denser, more electrically conductive product is obtained. Calcined petroleum coke is cooled from 1350 degrees Celsius to less than 200 degrees Celsius in a few hours, allowing it to be securely handled and transferred to storage silos or directly into shipping containers, trucks, railcars, barges, or vessels.

Green petroleum coke has different structural forms, known as needle coke, sponge coke, and shot coke. The quality of crude oil

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plays a key role in determining which of these is produced, however, the coker operation may also have an influence.

Needle coke is a premium product and has very low sulphur (S) and impurity levels; it has a very layered or anisotropic structure. It is ideal for the production of the graphite electrodes used in steel-producing electric arc furnaces.

The sponge-like structure of calcined petroleum coke is useful in the production of anodes. The pores enable the binding material to pass through the coke particles and create a solid carbon block through which aluminium smelters conduct electricity into their smelting pots. The anodes are consumed over time (nearly 40 tonnes of calcined petroleum coke expended for every 100 tonnes of aluminium manufactured). Presently, no known commercially feasible substitute exists for calcined petroleum coke in the production and use of aluminium smelter anodes. The majority of calcined petroleum coke produced is consumed by the primary aluminium industry, followed by the steel industry (where it is employed as a recarburizing agent).

Shot coke has a typical spherical particle shape and a dense, very isotropic (also called granular) texture. Shot coke has higher levels of sulfur and trace metal impurities.

#### Global Calcined Petroleum Coke Market Segmentation

Calcined Petroleum Coke Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

By type, the market is segmented into:

- Needle Coke
- Shot Coke
- Sponge Coke
- Honeycomb Coke

By application, the market is classified into:

- Aluminium Industry
- Steel Industry
- Others

By grade, the market is divided into:

- Anode Grade
- Needle Grade

By region, the market is segmented into:

- North America
- Europe
- Asia Pacific
- Latin America
- Middle East and Africa

#### Key Industry Players in the Global Calcined Petroleum Coke Market

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The report presents a detailed analysis of the following key players in the market, looking into their capacity, and latest developments like capacity expansions, plant turnarounds, and mergers and acquisitions:

- BP America Inc.
- Elsid S.A.
- Oxbow Corporation
- Maniyar Group of Industries
- Atha Group
- Rain Industries Limited
- Others

The EMR report gives an in-depth insight into the industry by providing a SWOT analysis as well as an analysis of Porter's Five Forces model.

More Insights On

United States Petroleum Coke Market

Petroleum Coke Market

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