

Japan Black Carbon Market Report and Forecast 2025-2034

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Report description:

The Japan black carbon market is projected to grow at a CAGR of 5.40% between 2025 and 2034.

Japan Black Carbon Market Growth

With increasing government investment in sectors like construction, automotive, rubber industry, etc., there is a strong need for reinforcing materials like black carbon to enhance the mechanical properties of manufactured components. The increasing need for better mechanical properties is contributing significantly to the Japan black carbon market growth.

The Japanese food industry is rising at a rapid rate, as is the black carbon market. Black carbon is used as pigments and reinforcing agents for increasing mechanical strength, such as the tensile strength and toughness of packaging materials. Due to their ability to protect components from UV degradation, they are widely used in the plastic packaging industry, thus generating demand for Japan black carbon market.

With the rising population living in single-person households, the rapid rise of the printing industry and the increasing number of vehicles contribute significantly to the growth of the Japan black carbon industry.

STANDARD PASSENGER VEHICLE PRODUCTION (JANUARY 2024)

Key Trends and Developments

Technological innovations and advancements, composites, sustainability, performance, and durability are fueling the Japan black carbon market development.

March 2024

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In 2024, Cabot Corporation was awarded the Tire Technology International Award for its DX9660 elastomer composite innovation in the Chemicals and Compounding Innovation category.

January 2024

In 2025, Birla Carbon aimed to increase its capacity by 120 kMT, doubling it to 240 kMT in the future, driving market expansion in India and Southeast Asia.

November 2023

PCBL obtained approval to acquire AquaPharm Chemical Private Ltd, expanding its operations in water treatment chemicals and the oil & gas chemical industry.

October 2023

PCBL obtained a patent for treating carbon black and oxidized carbon black, along with modifying speciality-grade carbon blacks for ink and coating applications.

Technological innovations and advancements

Seat belts are now an essential component of vehicle safety regulations. Black carbon is used as a colouring agent for buckles and provides anti-static properties.

Composites

Black carbon is incorporated in lightweight composites and plastics to increase overall mechanical properties, which play an important role in fuel efficiency advancement.

Sustainability

New recycling technologies are under development for converting plastics into fuel, new plastics and other products that can be used in daily applications.

Performance and durability

There is a significant rise in demand for high-performance and durable tyres due to the increasing demand for automobiles. Cobalt black reduces the effect of UV rays by dissipating heat from the parts of the car that get hot while driving.

Japan Black Carbon Market Trends

Japan is the 4th largest economy in the world, and there is a significant rise in demand for automobiles. With the advancement of technology, there is a need for tyres with superior grip and good material properties, generating demand for black carbon for reinforcement. Also, the increase in quality standards by the government is compelling companies to produce goods with good mechanical properties.

In Japan, the black market is driven by an increasing number of automobiles, improvements in quality standards, and increasing demand for reinforcement agents across different sectors.

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Japan Black Carbon Market Segmentation

Japan Black Carbon Market Report and Forecast 2025-2034 offers a detailed analysis of the market based on the following segments:

Market Breakup by Product

- Acetylene Black
- Furnace Black
- Thermal Black
- Others

Market Breakup by Grade

- Specialty Grade
- Rubber Grade

Market Breakup by End Use

- Industrial
- Printing and Packaging
- Building and Construction
- Transportation
- Others

Market Breakup by Region

- East
- West
- North and Central
- South

Japan Black Carbon Market Share

With the increasing demand for products with high durability and temperature resistance, there is a strong demand for furnace black in Japan black carbon market.

Furnace black is extensively employed in the tyre industry to enhance tyre durability and performance across various road conditions.

Thermal black, known for its heat resistivity, finds its application in the production of high-temperature-resistant rubber goods, ensuring longevity and reliability in harsh environments.

The availability of various alternatives for uses like conductive plastics, coatings, and printing inks significantly contributes to Japan black carbon market growth.

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Specialty-grade black carbon drives Japan black carbon market growth by meeting diverse high-value industry needs and fostering advanced and specialized product development.

Specialty-grade carbon blacks are used for high-tech applications, ensuring optimal performance and reliability in advanced materials and electronics.

Rubber-grade carbon blacks enhance rubber products, boosting mechanical properties and longevity, particularly in tyre manufacturing and industrial rubber products.

With increasing demand for materials having high tensile and abrasive strength, black carbon finds its application in a wide variety of industries, acting as an agent to improve properties.

Black carbon acts as a reinforcement agent in rubber products and as a pigment in plastics. It helps in increasing the tensile strength of materials and helps in UV degradation protection, making them suitable for food and beverage packaging.

Due to their application in concrete reinforcement, they are used to improve the resistance and durability of road pavement. Due to their intense black colouration, they are used for newspaper, magazine, and label printing. All these factors are promoting the growth of the black carbon market in Japan.

Leading Players in the Japan Black Carbon Market

Market players are driving Japan black carbon market growth by offering a more reliable, high-strength product to the consumers.

Aditya Birla Group

Aditya Birla Group, established in 1857, is headquartered in Mumbai, India. Diverse conglomerates operate in metals, cement, textiles, chemicals, and financial services.

Tokai Carbon Co., Ltd

Tokai Carbon Co., Ltd. was established in 1918 with its headquarters in Tokyo, Japan. Specialises in carbon products for various industries.

Cabot Corporation

Cabot Corporation, established in 1882, is headquartered in Boston, USA. Produces speciality chemicals and performance materials, including carbon black.

PCBL Limited

PCBL Limited, established in 1960, is headquartered in Kolkata, India. Manufacturer of carbon black for industries like tyres, plastics, inks, and coatings.

Other Japan black carbon market key players are Asahi Carbon Co Ltd, among others.

Black Carbon Market Analysis by Region

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With the rapid growth of the automotive industry in Japan, there is a huge demand for tyres with high tensile and abrasive strength. According to the Japan Automotive Manufacturers Association, there were about 5,78,126 automobiles produced in January 2024, registering a growth of 93.17% year over year. This growth in automobile numbers will directly contribute to the growth of the black carbon market in Japan. This growth in numbers is poised by all the regions North, South, East, and West. This industrial growth propels the demand for black carbon across diverse sectors.

With increasing standards of manufacturing, black carbon is used as a reinforcing agent, providing more strength to the material. Due to its properties, it is used as a pigment for the manufacturing of inks. All these properties significantly promote the Japan black carbon market share.

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