

Asia Pacific Carbon Black Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

Market Report | 2025-08-13 | 106 pages | EMR Inc.

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Report description:

The Asia Pacific carbon black market attained a value of USD 10.57 Billion as of 2024 and is anticipated to grow at a CAGR of 6.00% during the forecast period of 2025 to 2034. The Asia-Pacific carbon black market is fueled by increasing tire and automotive manufacturing, industrialization, increasing construction, increasing demand for specialty uses, and government efforts to boost infrastructure and manufacturing industry growth. The market is thus expected to reach a value of nearly USD 18.93 Billion by 2034.

Asia Pacific Carbon Black Market Growth

The Asia-Pacific carbon black market is growing strongly with various drivers such as rising demand from the automotive and tire sectors, industrialization at a fast pace, and technology in sustainable production. One of the main drivers of growth is the growing automotive and tire sector. With increasing vehicle production and sales in nations such as China, India, and Indonesia, demand for carbon black as a reinforcing filler in tires has increased. For instance, tire production in China is predicted to increase on account of higher exports and local demand, increasing the market for carbon black, also contributing to the Asia Pacific carbon black market expansion.

Construction activities and infrastructure development also lead to market expansion. Carbon black has vast applications in cement, coatings, and paints for increased strength. Due to continuous urbanization in developing economies such as India and Vietnam, demand for carbon black in construction materials is on the rise. For example, India's "Smart Cities Mission" spur demand for infrastructure materials, propelling the consumption of carbon black, thus boosting the carbon black demand.

Alongside, sustainability developments and innovations are transforming the industry. Industry players such as Orion Engineered Carbons and Birla Carbon are making heavy investments in making carbon black from sustainable sources. Orion's ECORAX Nature, a green carbon black sourced from renewable origins, is acquiring popularity as business houses transition toward

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low-carbon products. Together, these components fuel market growth, with opportunities for further increases in the ensuing years.

Key Trends and Recent Developments

The Asia-Pacific carbon black market grows through innovation, sustainability, automation, regulations, and rising industry demand, thus propelling the Asia Pacific carbon black market dynamics and trends.

January 2025

Tokai Carbon, Bridgestone, and universities launched a project to enhance recovered carbon black (rCB) from end-of-life tires, aiming to create eco Carbon Black (eCB) with virgin carbon black-like properties, supporting carbon neutrality and circular economy goals in the Asia-Pacific region.

October 2024

Birla Carbon launched its first Asia Post Treatment plant in Patalganga, India, enhancing specialty carbon black production. The facility boosts efficiency, precision, and sustainability, supporting industries like coatings and inks while strengthening Birla Carbon's global network and commitment to innovation.

November 2024

PCBL plans a major carbon black capacity expansion, targeting 1 million MTPA by 2027-28. With new sites, specialty-grade growth, and battery innovations, it leverages market shifts, sustainability, and strong financials to expand globally, especially in Europe and Asia.

January 2023

Nippon Steel, Mitsubishi Corporation, and ExxonMobil are collaborating on a CCS project to capture and store CO2 emissions in the Asia-Pacific region. The initiative supports carbon neutrality by developing infrastructure, evaluating overseas storage, and enhancing low-emission solutions for hard-to-decarbonize industries.

Rise of Specialty Carbon Black

The use of specialty carbon black is expanding in high-performance coatings, plastics, and electronics. Businesses are creating high-purity grades with enhanced conductivity for lithium-ion batteries and 5G uses, driving the expanding electric vehicle (EV) and advanced electronics markets, thus pushing the growth of Asia Pacific carbon black market.

Shift Towards Circular Economy

The sector is observing a transition to circular economy business models, where producers are making investments in recovered carbon black (rCB) from recycled tires. This cuts down on dependence on virgin carbon black, minimizes emissions, and is compliant with worldwide sustainability objectives, with Scandinavian Enviro Systems being one of the drivers of rCB technology innovation.

Technological Advancements in Manufacturing

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Automation, artificial intelligence-based quality monitoring, and more efficient furnace black processes are making production more efficient. Firms are implementing advanced pyrolysis processes to enhance yield and lower energy utilization, boosting cost savings and product uniformity as demand grows across numerous end-use industries, and thus aiding in shaping new trends in the Asia Pacific carbon black market.

Regulatory Pressure Driving Innovation

Tightening environmental policies in Asia-Pacific, especially in China and India, are forcing manufacturers to implement cleaner production technologies. Firms are investing in low-emission manufacturing processes for carbon black, including hydrogen-based production, in order to meet developing regulatory requirements and maintain long-term market viability.

Asia Pacific Carbon Black Market Trends

The Asia-Pacific carbon black market is undergoing dynamic change as a result of innovation, sustainability, and rising industrial demand. Specialty carbon black is picking up in high-performance end-use areas such as coatings, plastics, and electronics. Increased emphasis on sustainability has prompted development in recovered carbon black (rCB), as firms invest in environmentally friendly measures to comply with regulatory pressures, thereby augmenting the Asia Pacific carbon black demand. Advances in technology, such as the application of artificial intelligence in quality control and furnace black production, are boosting efficiency. Moreover, changes in supply chains in Europe and Asia, and tough environmental policies, are remodeling market strategies. Industry leaders such as Birla Carbon, Tokai Carbon, and PCBL are adding capacity and creating innovations in battery materials, making the region a global leader in the carbon black industry.

Asia Pacific Carbon Black Industry Segmentation

The EMR's report titled "Asia Pacific Carbon Black 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

- Speciality Grade
- Rubber Grade

Market Breakup by End Use

- Industrial
- Printing and packaging
- Building and construction
- Transportation
- Others

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Market Breakup by Region

- China
- India
- Japan
- ASEAN
- Australia

Asia Pacific Carbon Black Market Share

The Asia-Pacific carbon black market is seeing robust demand across various product types owing to varied industrial uses. Acetylene Black is growing, led by the growing electric vehicle (EV) and energy storage industries. As per Asia Pacific carbon black market analysis, its high electrical conductivity makes it essential for lithium-ion batteries, fuel cells, and high-performance electronics. As nations such as China, Japan, and South Korea invest in renewable energy and EV infrastructure, the demand for acetylene black keeps growing. In contrast, Furnace Black is still the leading product because of its widespread application in tire production, automotive rubber parts, and plastic reinforcement. With rising vehicle manufacturing, fast urbanization, and growth in the packaging industry, furnace black is experiencing steady growth in major economies in the region.

Thermal Black is finding increasing acceptance in non-rubber uses, such as coatings, insulation, and specialty polymers, spurred by growing construction and electronics sectors. As per Asia Pacific carbon black industry analysis, sustainability trends are also stimulating demand for Other Carbon Blacks, like recovered carbon black (rCB). Governments and industries are also placing greater emphasis on circular economy strategies and environmental policies, encouraging manufacturers to turn towards environmentally friendly options. Businesses are making investments in next-generation recycling technologies and more sustainable production processes, making sustainable carbon black solutions a greater part of the region's changing market dynamics.

Competitive Landscape

Major players in the Asia-Pacific carbon black industry, such as Birla Carbon, Tokai Carbon, and PCBL, are looking to expand capacity, innovate, and become more sustainable. They are making investments in specialty and recovered carbon black (rCB) to respond to increased demand in high-performance markets. They are also developing battery materials for electric vehicles (EVs), improving production efficiency with AI technologies, and implementing green manufacturing to meet increasingly stringent environmental regulations. In addition, they are building supply chains to take advantage of changing global trade patterns.

Birla Carbon

Birla Carbon, founded in 1921 and with headquarters in India, is a premier producer of specialty and performance carbon blacks for use in tires, coatings, plastics, and inks. It is making major investments in sustainability through developments such as Recovered Carbon Black (rCB) and high-performance conductive grades for EV battery applications, consolidating its leadership position in the industry.

Jiangxi Blackcat Carbon Black Inc.

Jiangxi Blackcat Carbon Black Inc., established in 2001 and headquartered in China, is the nation's leading carbon black manufacturer. It provides reinforcement, conductive, and specialty carbon blacks to tire, industrial rubber, and plastics industries. The company incorporates energy-efficient technologies and cutting-edge recovery systems, supporting China's carbon-neutral objectives while growing its presence in the Asia-Pacific region.

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Tokai Carbon Co., Ltd.

Tokai Carbon Co., Ltd., founded in 1918 and headquartered in Japan, produces furnace, acetylene, and specialty carbon blacks used in rubber, coatings, and applications of lithium-ion batteries. Through collaborations and investments in recovered carbon black (rCB) technology, Tokai Carbon is dedicated to sustainability while improving material performance due to growing eco-friendly requirements.

Longxing Chemical Industry Co., Ltd.

Longxing Chemical Industry Co., Ltd., established in 1994 and China-based, is dedicated to rubber and specialty carbon blacks for tire, coating, and printing inks. It specializes in high-performance grades and environmentally friendly manufacturing, applying sophisticated processing technology to satisfy global quality requirements and adhere to stringent environmental regulations throughout the Asia-Pacific region.

Other key players in the Asia Pacific carbon black market report include Phillips Carbon Black Limited, Mitsubishi Chemical Holdings Corporation, Nippon Steel & Sumikin Chemical, OCI Company Ltd., and Shandong Huadong Rubber Materials Co., Ltd, among others.

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