

Global Carbon Black Market Analysis: Plant Capacity, Location, Process, Production, Operating Efficiency, Demand & Supply, End Use, Grade, Type, Regional Demand, Sales Channel, Company Share, Foreign Trade, Industry Market Size, Manufacturing Process, 2015-2035

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Abstracts

H1 2023: The prominent producers of Carbon Black in H1 2023 were Birla Carbon, Cabot Corporation, and Orion Engineered Carbons S.A. In April 2023, Phillips Carbon Black Ltd. (PCBL) commissioned its new facility commercial production in Tamil Nadu, India. This project is worth USD 96 million (INR 800 crores). After completion of its first phase, this plant will add 63 thousand tonnes of Carbon Black production capacity along with 24-Megawatt green energy. The company stated that hopefully it will be able to start the second stage of the 147 thousand tonnes per annum project this fiscal year at the Carbon Black plant. Throughout the first half of 2023, Carbon Black prices fell in the Asia Pacific region due to a decline in downstream demand. The demand for Carbon Black by the downstream tyre and automobile industries was sluggish. Additionally, there was ample of Carbon Black inventories, which led to a decrease in price as a result of a mismatch between supply and demand. The lack of functionality in the supply chain and busy ports further enhanced the supply rate, which led to a decrease in the price of carbon black in the Asian market. However, the US market experienced bumpy carbon black market in H1 2023. After bearish market in January, the price of Carbon Black stabilized in February 2023 and then dropped in March 2023. The automobile industry started to rebound in February, but it was soon adversely affected by the financial instability brought on by the fall of two significant US banks in the month of March. Carbon Black consumption was declined in the US as a result of the economy's decline having a particularly negative effect on the vehicle industry, which ultimately led

to a decrease in price. As a ripple effect, carbon black prices remained low from April -June 2023 in America.

The global Carbon Black market stood at approximately 14.5 million tonnes in 2022 and is expected to grow at a CAGR of 4.01% during the forecast period until 2035. Growth in the overall packaging industry globally has increased the demand for Carbon Black for End Uses including Tyres, Mechanical Rubber Goods, Plastics & Polymers, Printing Inks, and Others.

Carbon black is a type of paracrystalline carbon which appears as a fine black powder. It can be synthesized by partial combustion of hydrocarbons, coal, petroleum products, and ethylene cracking. However, the Furnace Black Process is the most common process for synthesizing carbon black. This process creates carbon black by partially combusting high-temperature gases with feedstock oil, which can be coal or petroleum oil. Due of its high yield and extensive control over parameters like particle size or structure, this approach is appropriate for mass production. Currently, this is the process that produces carbon black most frequently for usage in coloring and rubber reinforcing. This chemical is mostly used in tyres sector. Additionally, Carbon black also has other uses such as conveyor belts, hoses, plastics, dyes and pigments, and vehicle coatings in addition to tyres.

The primary market driver of the global Carbon Black market is the rubber industry. This chemical works as a filler in tyres and improves its physical characteristics and provides it greater strength. The addition of carbon black prevents electrostatic charging and aids in transferring heat away from some hotspots on the tyre, particularly around the groove and belt. This increases the tire's longevity and reduces thermal stress to it. The expanding rubber sector with applications in a wide array of industries like automotive and construction sectors will most likely hike up the demand of Carbon Black on a global level. Carbon Black serves as a pigment in paints and coatings as well. Additional growth prospects are possible to carbon black manufacturers thanks to the growing paints and coatings industry owing to industrialization. By considering these reasons, the global Carbon Black market is anticipated to reach approximately 24 million tonnes by 2035.

Based on type, the global Carbon Black market is divided into Rubber segment and Speciality segment. In 2022, Rubber segment of Carbon Black held 88% share in global demand of carbon black. With the help of carbon black filler, rubber is strengthened, given more volume, its physical characteristics are improved, and the vulcanization process is reinforced. The rubber products are used to produce surgical gloves, motor -

vehicle tyres, and shoe soles.

Based on grade, the Carbon Black market is segregated into Carcass Line (N539-787), Tread Line (N110-N375), Speciality Tire Line, High Purity Line for MRG, and Others. The Carcass Line (N539-787) is dominating the Carbon Black market and utilized mainly by the tyre and rubber sector.

Based on region, Asia Pacific is dominating the Carbon Black market, followed by Europe. Asia Pacific accounted for a market share of more than 50% of the global Carbon Black market in 2022. The tyre and rubber industry are lubricating the Carbon Black market across the Asia Pacific region. Across various developing nations like China, India and others, government is focusing towards making countries 100% electric vehicle nation by 2030 such as in India under the National Electric Mobility Mission Plan is expected to push demand for automobiles in the coming years. This demand in turn would aid growth in ancillary industries such as tire industry, which use Carbon Black as their primary raw material. Moreover, demand for industrial rubber such as in conveyor belts and hoses is anticipated to positively influence Carbon Black demand in India as well.

Based on the end-user industry, the Carbon Black market is segmented into Tyres, Mechanical Rubber Goods, Plastics & Polymers, Printing Inks, and Others. Among these, the Tyres industry is the leading segment and accounted for around 65% of the share of total Carbon Black demand in 2022. This industry is anticipated to dominate the global Carbon Black market owing to growing demand of vehicles for transportation of good and people with the growing economies across the globe.

Significant players in the Global Carbon Black market are Birla Carbon, Cabot Corporation, Orion Engineered Carbons S.A., Philips Carbon Black Ltd. (RP-Sanjiv Goenka Group), Jiangxi black cat carbon black Co., Ltd, Omsk Carbon Group, Tokai Carbon Group, Longxing Chemical Stock Co., Ltd., Continental Carbon Ltd., Suzhou Baohua Carbon Black, OCI Company Ltd., Nippon Steel Chemical & Material Co., Ltd, and Himadri Speciality Chemical Ltd.

Years considered for this report:

Historical Period: 2015- 2022

Base Year: 2022

Estimated Year: 2023

Forecast Period: 2024-2035

This report will be delivered on an online digital platform with one-year subscription and quarterly update.

The objective of the Study:

- To assess the demand-supply scenario of Carbon Black, which covers the production, demand, and supply of Carbon Black around the globe.
- To analyze and forecast the market size of Carbon Black.
- To classify and forecast the Global Carbon Black market based on end-use and regional distribution.
- To examine global competitive developments such as new capacity expansions, mergers & acquisitions, etc., of the Carbon Black market.

To extract data for the Global Carbon Black market, primary research surveys were conducted with Carbon Black manufacturers, suppliers, distributors, wholesalers, and Traders. While interviewing, the respondents were also inquired about their competitors. Through this technique, ChemAnalyst was able to include manufacturers that could not be identified due to the limitations of secondary research. Moreover, ChemAnalyst analyzed various segments and projected a positive outlook for the Global Carbon Black market over the coming years.

ChemAnalyst calculated Carbon Black demand in the globe by analyzing the historical data and demand forecast which was carried out considering the historical extraction and supply and demand of Carbon Black across the globe. ChemAnalyst sourced these values from industry experts, and company representatives and externally validated through analyzing historical sales data of respective manufacturers to arrive at the overall market size. Various secondary sources such as company websites, association reports, annual reports, etc., were also studied by ChemAnalyst.

Key Target Audience:

Carbon Black manufacturers and other stakeholders

Organizations, forums and alliances related to Carbon Black distribution

Government bodies such as regulating authorities and policy makers

Market research organizations and consulting companies

The study is useful in providing answers to several critical questions that are important for industry stakeholders such as Carbon Black manufacturers, customers and policy makers. The study would also help them to target the growing segments over the coming years, thereby aiding the stakeholders in taking investment decisions and facilitating their expansion.

Report Scope:

In this report, Global Carbon Black market has been segmented into following categories, in addition to the industry trends which have also been detailed below:

Attribute

Details

Market size Volume in 2022

14.5 million tonnes

Market size Volume by 2035

24 million tonnes

Growth Rate

CAGR of 4.01% from 2023 to 2035

Base year for estimation

2023

Historic Data

2015 – 2022

Forecast period

2024 – 2035

Quantitative units

Demand in million tonnes and CAGR from 2023 to 2035

Report coverage

Industry Market Size, Capacity by Company, Capacity by Location, Capacity by Process, Operating Efficiency, Production by Company, Demand by End- Use, Demand by Type, Demand by Grade, Demand by Region, Demand by Sales Channel, Demand-Supply Gap, Foreign Trade, Company Share, Manufacturing Process, Policy and Regulatory Landscape.

Segments covered

By End-Use: (Tyres, Mechanical Rubber Goods, Plastics & Polymers, Printing Inks, and Others)

By Sales Channel: (Direct Sale and Indirect Sale)

Regional scope

North America, Europe, Asia Pacific, Middle East and Africa, and South America.

Pricing and purchase options

Avail customized purchase options to meet your exact research needs. Explore purchase options

Available Customizations:

Global Carbon Black Market Analysis: Plant Capacity, Location, Process, Production, Operating Efficiency, Dema...

With the given market data, ChemAnalyst offers customizations according to a company's specific needs.

Contents

1. INDUSTRY MARKET SIZE

It is an essential metric for market analysis, as it provides insights into the overall size and growth potential of Carbon Black market in terms of value and volume.

2. CAPACITY BY COMPANY

On our online platform, you can stay up to date with essential manufacturers and their current and future operation capacity on a practically real-time basis for Carbon Black.

3. CAPACITY BY LOCATION

To better understand the regional supply of Carbon Black by analyzing its manufacturers' location-based capacity.

4. CAPACITY BY PROCESS

To evaluate the demand of various methods and their capacities while looking for the future growth of each process.

5. PLANT OPERATING EFFICIENCY [QUARTERLY UPDATE]

To determine what percentage manufacturers are operating their plants or how much capacity is being currently used.

6. PRODUCTION BY COMPANY [QUARTERLY UPDATE]

Study the historical annual production of Carbon Black by the leading players and forecast how it will grow in the coming years.

7. DEMAND BY TYPE

Learn about the various types: Rubber segment and Speciality segment, and their demands. It will allow you to choose which type to concentrate on when designing your strategy.

8. DEMAND BY GRADE

Learn about the various grades of Carbon Black- Carcass Line (N539-787), Tread Line (N110-N375), Speciality Tire Line, High Purity Line for MRG, and Others, and their demands. It will allow you to choose which grade to concentrate on when designing your strategy.

9. DEMAND BY END- USE [QUARTERLY UPDATE]

Discover which end-user industry (Tyres, Mechanical Rubber Goods, Plastics & Polymers, Printing Inks, and Others) are creating a market and the forecast for the growth of the Carbon Black market.

10. DEMAND BY REGION

Analyzing the change in demand of Carbon Black in different regions, i.e., North America, Europe, Asia Pacific, Middle East and Africa, and South America, that can direct you in mapping the regional demand.

11. DEMAND BY SALES CHANNEL (DIRECT AND INDIRECT)

Multiple channels are used to sell Carbon Black. Our sales channel will help in analyzing whether distributors and dealers or direct sales make up most of the industry's sales.

12. DEMAND-SUPPLY GAP

Determine the supply-demand gap to gain information about the trade surplus or deficiency of Carbon Black.

13. COMPANY SHARE

Figure out what proportion of the market share of Carbon Black is currently held by leading players across the globe.

14. COUNTRY-WISE EXPORT

Get details about quantity of Carbon Black exported by major countries.

15. COUNTRY-WISE IMPORT

Get details about quantity of Carbon Black imported by major countries.

16. MANUFACTURING PROCESS

Discover insights into the intricate manufacturing process of Carbon Black.

17. PRICING ANALYSIS & FORECAST

Analyze historical prices since 2015 & Forecast on three months rolling period for next 12 months.

Years considered for this report:

Historical Period: 2015- 2022

Base Year: 2022

Estimated Year: 2023

Forecast Period: 2024-2032

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