

# Carbon Black Growth Driven by EV Tires, Battery Conductive Grades, and Sustainable Manufacturing | DataMIntelligence

*Carbon black thrives on EV tire growth, battery-grade conductivity & sustainable processes, expanding across automotive, electronics & advanced materials sectors*

IDAHO FALLS, ID, UNITED STATES, July 30, 2025 /EINPresswire.com/ -- [Carbon Black Market](#) is propelled by rising demand for tires and rubber products, stringent environmental regulations driving high-performance grades, and expanding applications in plastics, inks, and coatings; the material's reinforcing properties, UV protection, and conductivity make it indispensable across automotive,

construction, electronics, and specialty chemical industries. Carbon black's role in improving tire durability, fuel efficiency, and wear resistance underpins robust expansion in passenger and commercial vehicles, while emerging usage in battery electrodes and conductive polymers opens

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Carbon black is reinventing itself from reinforcing rubber to powering batteries and printed electronics driven by EV growth, green manufacturing, and next-gen material demands”

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new high-value markets. Innovations in furnace and thermal black processes, coupled with commitments to lower emission footprints, are further stimulating adoption of specialty grades in advanced composites and electronic components. The Carbon Black Market reached US\$ 21.85 billion in 2024 and is forecast to climb to US\$ 32.68 billion by 2032, achieving a CAGR of 5.16% over the period 2025–2032.

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Carbon Black Market Recent Key Developments and Technological Advancements :

July 2025 – Cabot Corporation unveiled its Plasma Black process, an energy-efficient furnace black technology that reduces CO<sub>2</sub> emissions by 20% compared to conventional methods, supplying specialty grades for EV tire compounds.

June 2025 – Imerys introduced a new range of surface-functionalized carbon blacks engineered for high-performance conductive inks in printed electronics, offering 30% higher conductivity at lower loadings.

May 2025 – Tokai Carbon Co. Ltd commenced pilot production of biomass-derived carbon black at its Aichi facility, utilizing renewable feedstocks to deliver a 15% reduction in lifecycle greenhouse-gas emissions.

April 2025 – Denka released its DenkaTherm series of furnace black grades tailored for industrial rubber belts and hoses, featuring improved dispersion characteristics and thermal stability for extreme-temperature applications.

#### Carbon Black Market Acquisitions or Mergers :-

In May 2025, Birla Carbon finalized the acquisition of a European specialty carbon black producer, strengthening its portfolio in high-end grades for battery and electronic applications.

OCI COMPANY LTD merged its North American distribution arm with Continental Carbon Company in June 2025, creating an integrated supply network aimed at optimizing logistics and customer service across key markets.

Lion Specialty Chemicals Co., Ltd. entered a joint venture with ASAHI CARBON CO., LTD. in July 2025 to co-develop next-generation elastomer-grade furnace blacks, pooling R&D expertise to accelerate new product launches.

#### Carbon Black Market Opportunities :-

The carbon black market presents several high-growth opportunities:

**Electric Vehicle (EV) Tires & Components:** Rising EV production drives demand for low-rolling-resistance blacks and conductive grades for smart tire sensors.

**Battery & Energy Storage:** Conductive carbon blacks are critical in lithium-ion battery electrodes and emerging sodium-ion technologies, opening multi-billion-dollar application segments.

**Printed Electronics & 5G Infrastructure:** Specialty blacks for conductive inks, flexible circuits, and electromagnetic shielding will see accelerated uptake as 5G networks expand.

**Sustainable Manufacturing:** Biomass- and waste-derived feedstocks create carbon-neutral or

carbon-negative grades, appealing to eco-conscious OEMs and regulators.

Advanced Composites: Nano-engineered carbon blacks enhance mechanical and electrical properties in 3D-printed composites for aerospace, defense, and high-end automotive applications.

Carbon Black Market Key Players :-

OMSK Carbon Group

Imerys

Denka

Tokai Carbon Co. Ltd

ASAHI CARBON CO., LTD.

Birla Carbon

Continental Carbon Company

Lion Specialty Chemicals Co., Ltd.

OCI COMPANY LTD

Cabot Corporation

Carbon Black Market Segmentation

By Type:

Furnace Black

Thermal Black

Acetylene Black

Channel Black

Lamp Black

By Application:

Tires & Automotive Rubber

Industrial Rubber Products

Plastics & Polymeric Composites

Inks & Coatings

Batteries & Energy Storage

Conductive Polymers

3D-Printing Materials

By Process:

Furnace Process

Thermal Process

Oil Furnace Process  
Channel Process

By End-Use Industry:

Automotive  
Electrical & Electronics  
Construction  
Aerospace & Defense  
Packaging  
Consumer Goods

By Region:

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

Latest News – USA

In July-2025, the U.S. Environmental Protection Agency (EPA) proposed stricter emission limits for carbon black manufacturing, targeting a 25% reduction in particulate and VOC emissions by 2030, prompting major producers like Cabot Corporation to accelerate green-tech investments. In June-2025, Continental Carbon Company broke ground on a new furnace black expansion in Texas, increasing capacity for high-performance grades used in EV tire production. In May-2025, Lion Specialty Chemicals partnered with the U.S. Department of Energy to fund research into carbon black catalysts for CO<sub>2</sub> reduction in industrial processes.

Latest News – Japan

In July-2025, Japan's Ministry of Economy, Trade and Industry (METI) launched a subsidy program for next-generation carbon black plants that integrate renewable feedstocks, benefiting Tokai Carbon and Denka pilot projects. In June-2025, Imerys inaugurated its new R&D center in Tokyo focused on functionalized blacks for printed electronics and sensor applications. In April-2025, ASAHI CARBON received government approval for its first biomass-to-carbon black demonstration plant in Hokkaido, aligning with Japan's carbon neutrality goals by 2050.

Conclusion

The carbon black market stands at a pivotal juncture, balancing traditional applications in rubber reinforcement with emerging high-value uses in energy storage, electronics, and advanced

materials. With industry leaders committing to sustainable feedstocks, low-emission technologies, and functionalized product portfolios, the sector is adapting to global decarbonization imperatives while meeting growing demand. Competitive differentiation will hinge on proprietary grades, efficient manufacturing, and supply-chain agility. As end-use industries particularly automotive, battery, and printed electronics accelerate innovation, carbon black producers that invest in R&D, green manufacturing, and strategic alliances will secure leadership in a market poised to exceed US\$32 billion by 2032.

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