

CONDUCTEX e50

Advanced conductive carbon black for lead acid battery applications



BIRLACARBON.COM

Birla Carbon introduces Conductex e50, a new carbon black conductive additive designed for flooded starting, lighting, and ignition (SLI) batteries. This conductive carbon provides balanced performance between cold cranking and water loss due to carefully designed particle morphology and high purity.

Conductex e50 shows excellent dispersibility when incorporated using both dry and wet mixing which is required for high throughput manufacturing. This conductive carbon can also be used in start-stop batteries, as the improved dispersibility also produces a robust electrical network which increases the dynamic charge acceptance required for partial state of charge cycle life.

TARGET APPLICATIONS

- Automotive SLI
- Start-Stop

PRODUCT ATTRIBUTES

- Tailored particle morphology
- High purity/low metals
- Excellent dispersibility

PERFORMANCE ADVANTAGES

- Increased dynamic charge acceptance
- Reduced gassing and water loss
- Excellent partial state of charge cycle life

TYPICAL PROPERTIES

PROPERTY	UNIT	CONDUCTEX e50
Iodine Number	mg/g	110-130
Nitrogen Surface Area	m ² /g	100-120
Oil Absorption Number	cm ³ /100g	100-130
Ash Content	wt%	< 0.1
Moisture	wt%	< 1.0
Iron Content	ppm	< 20

The Birla Carbon team will collaborate with you to find the best possible solution for your carbon black needs. Please contact us at EnergySystems@adityabirla.com to request additional information.



BALANCE BETWEEN CHARGE ACCEPTANCE AND WATER RETENTION

Our Conductex e50 carbon black has a tailored particle morphology and high purity which reduces the side reactions that cause gassing and water loss. This reduction of water loss helps both flooded and valve regulated batteries and can increase the battery lifetime.

ABOUT BIRLA CARBON

Birla Carbon is a leading global supplier of carbon black. As one of the flagship businesses of the Indian multinational conglomerate, the Aditya Birla Group, Birla Carbon provides innovative sustainable carbon black solutions that enhance the performance of paints and coatings, inks and toners, energy systems, plastics, adhesives, sealants, textile fibers, mechanical rubber goods, and tires.

The company's footprint extends across 12 countries with 16 manufacturing facilities and two state-of-the-art technology centers in Marietta (USA) and Taloja (India), providing industry-leading innovation. Its Sustainable Operational Excellence (SOE) strategy focuses on employee safety, environmental stewardship, efficient use of carbon sources, and operating in a socially and ethically responsible manner.

In 2020, Birla Carbon was awarded a Gold level rating for sustainable practices for the fifth consecutive year by EcoVadis.

Birla Carbon's Purpose, Share the Strength, is about balanced and shared leadership, working at the product level to innovate cutting edge solutions, through collaboration with its people, customers and communities and backed by knowledge built over a century.

For more information, visit birlacarbon.com, or follow us @BirlaCarbon on Twitter, LinkedIn, Facebook, or Instagram.

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