# CONDUCTEX<sup>™</sup> e89

Advanced conductive carbon black for lead acid battery applications

Birla Carbon introduces Conductex e89, a new carbon black for use in high performance automotive starting, lighting, and ignition (SLI) and e-bike batteries that require high power in low temperature environments. The high surface area of this conductive additive provides critical cold cranking performance in automotive SLI and e-bike lead acid batteries without sacrificing charge acceptance or water loss. It is designed to easily incorporate into the paste mix using simple dry mixing or pre-wetting methods which results in good manufacturability and consistent results.

Conductex e89 can also be blended with other conductive additives in advanced lead acid applications to allow better customization of performance while reducing inventory complexity.

## **TARGET APPLICATIONS**

- High performance SLI
- E-bike

### **PRODUCT ATTRIBUTES**

- High surface area
- Excellent dispersibility
- Tailored morphology
- High purity

## **PERFORMANCE ADVANTAGES**

- Increased cold cranking power
- Reduced gassing and water loss
- Sustained dynamic charge acceptance

## **TYPICAL PROPERTIES**

PROPERTY	UNIT	CONDUCTEX e89	
lodine Number	mg/g	200-220	
Nitrogen Surface Area	m²/g	175-195	
Oil Absorption Number	cm <sup>3</sup> /100g	00g 130-150	
Ash Content	wt%	< 0.1	
Moisture	wt%	< 1.5	
Iron Content	ppm	< 30	

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.

#### ABOUT BIRLA CARBON

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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-ofthe-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

#### DISPERSIBILITY FOR CONDUCTIVITY AND PERFORMANCE

The unique morphology and ease of dispersion allows better use of the lead active material through a robust conductive network and increases the overall battery performance.

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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