

CONDUCTEX 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.



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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
Iodine Number	mg/g	200-220
Nitrogen Surface Area	m ² /g	175-195
Oil Absorption Number	cm ³ /100g	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.



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.

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 Talaja (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.

NORTH AMERICA

Birla Carbon U.S.A., Inc.
1800 West Oak Commons Court
Marietta, Georgia 30062-2253
USA
Phone: +1 770 792 9400

SOUTH AMERICA

Birla Carbon Brazil Ltda.
Rua Guaiaó, 66 – Salas 1012 a 1016 –
Bairro Aparecida
Santos, Brazil 11035-260
Phone: +55 13 3279 1300

EUROPE, MIDDLE EAST, AFRICA

Birla Carbon Europe GmbH
Podbielskistrasse 160 D-30177
Hannover, Germany
Phone: +49 511 630 890

ASIA/INDIA

Birla Carbon India Private Limited
910/911, Kailash Building
Kasturba Gandhi Marg
New Delhi – 110 001
India
Phone: +91 11 2335 1069 / 2335 1070

ASIA/THAILAND

Birla Carbon (Thailand) Public Co. Ltd.
888/122, 888/128, Mahatun Plaza,
12th Floor, Ploenchit Road, Lumpini
Pratumwan, Bangkok 10330
Thailand
Phone: +66 2253 6745

ASIA/CHINA

Birla Carbon China (Jining) Co. Ltd.
6th, Chenguang Road,
Jibei High Tech Development Zone
Jining City, Shandong Province
China 272000
Phone: +86 177 5371 2538

ASIA/SOUTH KOREA

Birla Carbon Korea Co., Ltd.
7th Floor Taewoo Building
285 Gangnamdae-ro Seocho-gu
Seoul 137 070

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