

# CONDUCTEX™ e47

Advanced conductive carbon black for lead acid battery applications



[BIRLACARBON.COM](http://BIRLACARBON.COM)

Birla Carbon introduces Conductex e47, a new carbon black specifically designed for start-stop and micro-hybrid lead acid batteries that require the highest resistance to water loss. The high purity and tailored morphology reduce the hydrogen evolution reaction leading to greatly reduced gassing even at high charging temperatures and increased battery life.

The lower water loss of Conductex e47 can enable an increase in the carbon loading to improve charging performance and reduce plate sulfation. This conductive additive excels in enhanced flooded batteries (EFB) and valve regulated lead acid batteries (VRLA) by increasing automotive fuel economy and improving battery sustainability.

## TARGET APPLICATIONS

- Start-Stop
- Micro-hybrid
- Automotive EFB/VRLA

## PRODUCT ATTRIBUTES

- High structure/branching
- High purity
- Excellent dispersibility

## PERFORMANCE ADVANTAGES

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

## TYPICAL PROPERTIES

PROPERTY	UNIT	CONDUCTEX e47
Iodine Number	mg/g	75-85
Nitrogen Surface Area	m <sup>2</sup> /g	70-80
Oil Absorption Number	cm <sup>3</sup> /100g	130-150
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](mailto:EnergySystems@adityabirla.com) to request additional information.



## RAPID CHARGE ACCEPTANCE WITH EXCELLENT LIFE

By providing a combination of increased charge acceptance with reduced gassing, Conductex e47 provides battery designers the flexibility to meet the growing needs of advanced lead acid batteries. This can help achieve the fast charging requirements necessary for start stop or regenerative braking applications.

### 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](http://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 Guaiaú, 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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