

CONDUCTEX e47

Advanced conductive carbon black for lead acid battery applications



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 ² /g	70-80
Oil Absorption Number	cm ³ /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 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, 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

BPSOCE47

Birla Carbon, Conductex, Raven and Ultra are trademarks owned by Birla Carbon U.S.A., Inc. or its affiliates and are registered in one or more countries. For details, visit birlacarbon.com/privacy.

The information presented within this publication is based on Birla Carbon's research and the research of others, but neither its accuracy nor completeness is guaranteed. BIRLA CARBON MAKES NO, AND DISCLAIMS ALL, REPRESENTATIONS AND WARRANTIES, EXPRESS OR IMPLIED, REGARDING ACCURACY, PERFORMANCE, STABILITY, RELIABILITY, OR USE, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND OR FITNESS FOR A PARTICULAR PURPOSE. The user is solely responsible for determining the suitability of any product for a specific purpose. No suggestion for use is intended as or should be construed as a recommendation to infringe upon any patent or to violate any law or regulation. Before handling, using, or processing any material, always read its Material Safety Data Sheet. ©2021 Birla Carbon 04/2021