

CONDUCTEX e68

Advanced conductive carbon black for lead acid battery applications

Birla Carbon introduces Conductex e68, a new high-performance carbon black specifically designed for enhanced flooded batteries (EFB) that require high electrical conductivity, excellent purity, and consistent performance. This conductive carbon is used in start-stop or micro-hybrid applications where charge acceptance and cycle life under partial state of charge operation are critical for achieving automotive fuel economy and sustainability targets. The low surface area and high purity of Conductex e68 greatly reduce gassing during fast charging which increases the battery life and ensures maintenance free operation.

Conductex e68 can also be used in valve regulated lead acid batteries (VRLA) where the robust conductive network and decreased water loss improve cycle life.



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TARGET APPLICATIONS

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

PRODUCT ATTRIBUTES

- Low surface area
- High structure/branching
- High purity
- Excellent dispersibility

PERFORMANCE ADVANTAGES

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

TYPICAL PROPERTIES

PROPERTY	UNIT	CONDUCTEX e68
Iodine Number	mg/g	30-40
Nitrogen Surface Area	m ² /g	30-40
Oil Absorption Number	cm ³ /100g	120-150
Ash Content	wt%	< 0.2
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 WATER RETENTION

Our Conductex e68 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 while lowering maintenance requirements. Together, the increased charge acceptance and long partial state of charge life greatly improve the sustainability of lead acid batteries.

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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