CONDUCTEX[™] e15

Advanced conductive carbon black for lead acid battery applications

Birla Carbon introduces Conductex e15, a carbon black tailored to provide high charge acceptance in high performance starting, lighting, and ignition (SLI) batteries and enhanced flooded batteries (EFB). This carbon black is optimized for high throughput manufacture where ease of dispersion and dry addition to the paste mix are needed. Conductex e15 can also be used in valve regulated lead acid (VRLA) battery formats to provide low temperature performance.

Performance benefits for this conductive carbon are typically observed at loadings of 0.2-1 wt% achieving reductions in plate sulfation and charge acceptance improvements.

TARGET APPLICATIONS

• Micro-hybrid

- High performance SLI
- Automotive EFB/VRLA

PRODUCT ATTRIBUTES

- Electrical conductivity
- High purity
- Excellent dispersibility

PERFORMANCE ADVANTAGES

- Increased dynamic charge acceptance
- Cold cranking power
- Excellent partial state of charge cycle life

TYPICAL PROPERTIES

PROPERTY	UNIT	CONDUCTEX e15	
lodine Number	mg/g	75-85	
Nitrogen Surface Area	m²/g	70-80	
Oil Absorption Number	cm ³ /100g	60-80	
Ash Content	wt%	< 0.15	
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.

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-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. In 2020, Birla Carbon was awarded a Gold level rating for sustainable practices for the fifth consecutive year by EcoVadis.

COLD CRANKING POWER

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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of the active material through a robust conductive network and increases the overall battery performance and reliability. Together, the increased charge acceptance and long partial state of charge life greatly improve the sustainability of lead acid batteries

Conductex e15 carbon black has a tailored particle morphology and high purity which allows efficient use

without sacrificing low temperature performance.





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