

# CB-CNT HYBRID

Advanced carbon black/CNT hybrid for energy storage applications



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

Birla Carbon introduces an ultra-conductive carbon black/carbon nanotube hybrid material that pushes the boundaries of electrical conductivity. This hybrid material has the high purity that is needed for energy storage applications. A pre-dispersion of the carbon black/CNT hybrid reduces mixing time and ensures safe material handling. The exceptional behavior at high voltage during lithium-ion battery cycling provides performance benefits for batteries that demand both a high energy density and high power density.

## TARGET APPLICATIONS

- High Performance EV
- Portable electronics
- Power tools
- Aerospace

## PRODUCT ATTRIBUTES

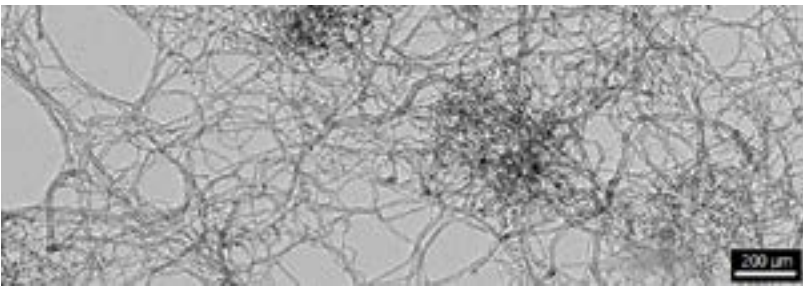
- Hybrid carbon black/CNT morphology
- High purity
- Pre-dispersion available

## PERFORMANCE ADVANTAGES

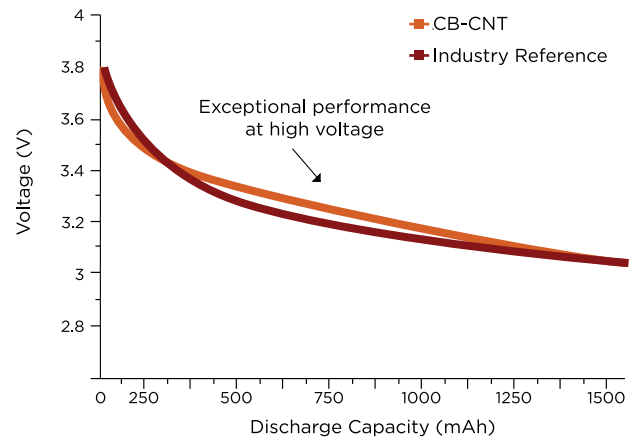
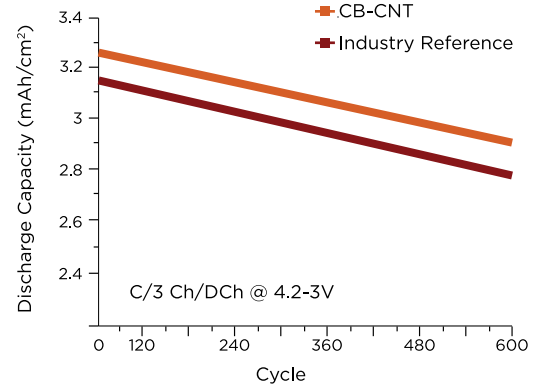
- Superior voltage retention under load
- Excellent long-term cycling and rate capabilities
- Higher active solids content

## TYPICAL PROPERTIES

PROPERTY	UNIT	CB-CNT
Nitrogen Surface Area	m <sup>2</sup> /g	200
Ash Content	wt%	< 0.5
Moisture	wt%	< 1.0



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.



## ABOUT BIRLA CARBON

Birla Carbon is a leading global supplier of carbon black. As one of the flagship businesses of the leading 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, plastics, adhesives, sealants, textile fibers, mechanical rubber goods, tires, Energy Systems, and Sustainable Carbonaceous Materials.

As an ardent practitioner of sustainable development, Birla Carbon's Sustainable Operational Excellence (SOE) strategy focuses on employee safety, environmental stewardship, efficient use of carbon sources, product circularity and sustainability, and a key focus on conducting operations in a socially and

ethically responsible manner. Birla Carbon has been recognized by EcoVadis since 2016 as an advanced practitioner of sustainability. Our current rating is available on the [Birla Carbon Sustainability webpage](http://Birla Carbon Sustainability webpage).

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](https://twitter.com/BirlaCarbon), [LinkedIn](https://www.linkedin.com/company/birlacarbon), [Facebook](https://www.facebook.com/BirlaCarbon), or [Instagram](https://www.instagram.com/BirlaCarbon).

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