

NTeC™-B

Advanced carbon black/CNT hybrid for energy storage applications



BIRLACARBON.COM

Birla Carbon introduces an ultra-conductive carbon nanotube/carbon black 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 CNT/carbon black 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

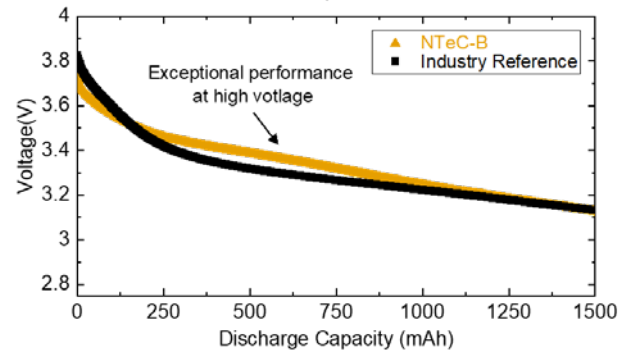
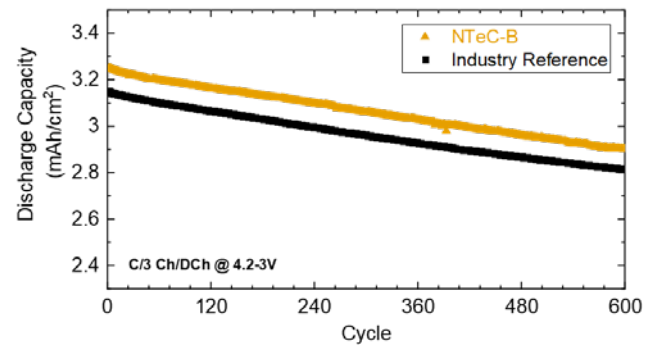
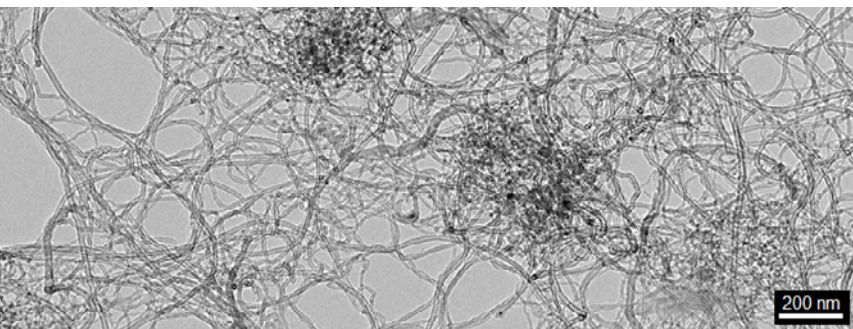
- Hybrid carbon black/CNT morphology
- High purity
- Pre-dispersion available

PERFORMANCE ADVANTAGES

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

TYPICAL PROPERTIES

PROPERTY	UNIT	NTeC-B
Nitrogen Surface Area	m ² /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 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-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

BPSNTECB

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 NTeC mark is owned by CHASM Advanced Materials, Inc., and is used with permission.

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