

CONDUCTEX™ i14

Advanced conductive carbon black for energy storage applications



BIRLACARBON.COM

Birla Carbon introduces a new ultra-high structure carbon black specifically designed for applications that demand a high electrical conductivity, like lithium-ion batteries. Our engineered Conductex i14 carbon additive creates extensive electrically conductive pathways. The ultra-high structure carbon black also allows for formulations to be made with higher solids loadings, allowing for significant increases in product throughput.

TARGET APPLICATIONS

- Automotive EV
- Portable electronics
- Power tools
- Stationary storage

PRODUCT ATTRIBUTES

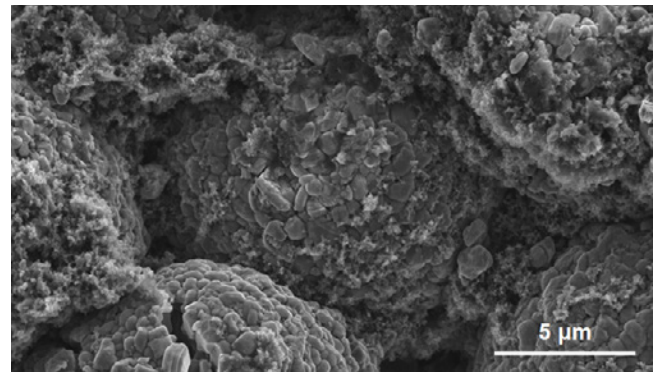
- High structure/branching
- High purity
- Excellent dispersibility

PERFORMANCE ADVANTAGES

- Superior cycling efficiency
- Excellent long-term cycling and rate capabilities
- Higher active solids content

TYPICAL PROPERTIES

PROPERTY	UNIT	CONDUCTEX i14
Nitrogen Surface Area	m ² /g	55-65
Oil Absorption Number	cm ³ /100g	230-260
Ash Content	wt%	< 0.05
Moisture	wt%	< 1.0



HIGHER SOLIDS LOADINGS AND EXCELLENT CYCLE LIFE

Birla Carbon's new ultra-high structure carbon black enables an 8% higher solids content in lithium-ion battery formulations, which enables a higher battery throughput that lowers manufacturing costs. This material then delivers exceptional cycle life performance, over 1000 cycles, for both high-energy and high-power applications. Together, the increased manufacturing efficiency and long cycle life greatly improve the sustainability of lithium-ion batteries.

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,
Jibe 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

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