Jeio to Complete Construction of New 1000 Ton CNT Plant Next Month… 6000 Ton Expansion by 2026

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Jeio began the operation of a 300-ton CNT conductive material plant last year. Conductive materials play the role of promoting movement of electrons between the anode and cathode of secondary batteries. Though carbon black is the mainly used conductive material currently, Deuk-joo Kang, the CEO of Jeio, was confident that the use of CNT would increase.

CEO Kang explained that, “The carbon black conductive material takes of 5% of secondary batteries, but CNT conductive materials only need 0.5%,” and said that, “It is effective not only in reducing costs, but also in increasing the charging capacity and extending the lifespan of batteries.”

Deuk-joo Kang began CNT research in 2003. He was the first in Asia to acquire technology to mass produce CNT in 2006 and was the first in the world to develop nonferrous CNT in 2015. Nonferrous CNT prevents the risk of fires and improves safety.

Jeio Co., Ltd. has currently secured SK on, Northvolt, CATL, and BYD as clients for conductive materials. CEO Kang emphasized that, “We are able to create excellent performance through smaller diameters and more homogenous formation compared to our competitors.

Jeio is completing their new plant for conductive materials next month. This is to be able to respond to the quickly rising demands of clients. The new plant in Ansan will produce 1,000 tons of CNT conductive materials.

CEO Kang explained that, “Companies that produce conductive materials based on CNT is globally rare,” and that, “We are receiving a lot of inquiries due to our showing of superior price and performance through our establishment of a batch process.”

Jeio will be expanding their production of conductive materials to 6,000 tons annually by 2026. CEO Kang said that, “Our backlog currently reaches 120 billion KRW,” and that, “The expansion of production facilities is absolutely necessary for stable supply.” Jeio is also seeking to secure new clients in regions like Japan, North America, and Europe.

Jeio will also build single-walled CNT conductive material testing equipment next year. Single-walled CNT is a required material to secure safety in silicon-based anode active materials. Jeio has currently researched the development of single-walled CNT for over 5 years. They have set a goal to secure a system to mass produce single-walled CNT to dominate the next-generation CNT market in advance. In addition to secondary batteries, Jeio is also preparing to expand their businesses in CNT fibers, sheets, and EV components.

CEO Kang said that, “The technical capabilities we have accumulated over more than 20 years of researching CNT is our strength,” and went on to say, “We will strengthen our competitiveness so that Jeio will be the first that comes to mind when CNT is mentioned.”

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