
Oji Holdings Introduces Prototype Mass Production Equipment for Cellulose Nanofiber and Natural Rubber Composites

Oji Holdings Corporation (President: Hiroyuki Isono; Head Office: Chuo-ku, Tokyo) announces that it has recently introduced masterbatch^(*1) manufacturing equipment with an annual production capacity of 100 tons of cellulose nanofiber (CNF) and natural rubber composites at the CNF R&D Center. Earlier, it had succeeded in developing composites^(*2) and began offering samples of them.

The Oji Group pursues green innovation centering on the development of new materials for sound forest development and for the utilization of forest resources. The original biomaterial was created by combining phosphorylated CNF developed by the Oji Group with natural rubber. Without losing the elasticity that is characteristic of natural rubber, it achieves hardness that is comparable with the hardness of natural rubber combined with carbon black.

The introduction of the equipment paves the way for the mass production of masterbatches. It is expected to accelerate demonstrative trials with the goal of society using these materials. In many industries, the use of environmentally friendly materials has become urgently necessary. These composites will be used in multiple applications, including rubber products for automobiles such as tires, rubber vibration isolators, belts and hoses, rubber products for construction, household and medical purposes and sporting goods.

The Oji Group will continue to endeavor to realize a sustainable society together with customers.



CNF-natural rubber masterbatch

*1) A product containing high dispersion additives, fillers and other ingredients in high concentrations

*2) Announced on October, 2022

<https://www.ojiholdings.co.jp/Portals/0/resources/content/files/news/2022/JP10cN12.pdf>

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