



November. 15. 2021 Marubeni Corporation Chuetsu Pulp & Paper Corporation

Notice Regarding the Launch of Cellulose Nanofiber-based Environment Improvement Material Sales for Hen Houses

Marubeni Corporation (hereinafter, "Marubeni") and Chuetsu Pulp & Paper Co.,Ltd (hereinafter, "Chuetsu") have announced the start of sales of environmental improvement material for hen houses (hereinafter "The Product") using cellulose nanofiber (*) ("CNF" "nanoforest[®]") manufactured by Chuetsu.

Marubeni and Chuetsu agreed to jointly develop the application and sales of CNF in April 2017 and have been developing applications in a wide range of fields including the acoustic, electronics, and rubber fields. The Product contributes to the maintenance and improvement of the environment for raising the hens as well as the working environment of the employees by keeping the hen houses in good condition. In addition, unwanted pests that cause stress to the hens are physically suppressed as the fine cellulose fibers become attached to them. The main elements of the material are fine cellulose fibers and water, which not only have no adverse effect on the hen houses and surrounding environment, but are also safe and easy for workers to handle.

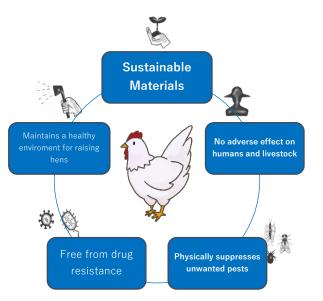
<Product name> nanoforest-S [Farm]

<Features of this product>

① The Product is made of sustainable materials from only natural products without any synthetic chemicals such as antibiotics and pesticides.

⁽²⁾ The drying and shrinking action of nanoforest[®] forms dust, dirt, and feathers into small clumps to prevent them from becoming scattered.

③ Natural fibers physically immobilize unwanted pests instead of terminating them with chemicals.



Marubeni and Chuetsu will start the sales of environment improvement materials for hen houses, and also promote R&D and sales channel development to expand the use of The Product not only in hen houses but also in other types of livestock facilities by taking advantage of the Marubeni Group's rich experience in the livestock industry.

(*) Cellulose nanofiber (CNF) is made from plant fiber (pulp) which is defibrated into nanometers





(Nano = 1/100000000). The material is derived from plant fibers. NEDO has proved that it is five times stronger than iron and steel.

[Cellulose Nanofiber nanoforest[®]]



[Related Release]

April 25, 2017

Conclusion of a Memorandum of Understanding (MOU) for Development of Cellulose Nanofiber Applications and Sales

https://www.marubeni.com/en/news/2017/release/20170425_eng.pdf

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