

Announcement of development and production of the world's first nanofiber mask inner sheet utilizing the nanofibers' features (super long-lasting, super trapping properties)

YAMASHIN-FILTER CORP. (President: Atsuhiko Yamazaki) has developed and manufactured nanofiber mask inner sheets using "YAMASHIN Nano Filter™", in-house developed nanofibers made from synthetic polymers.

We developed "YAMASHIN Nano Filter™" primarily to utilize for production of hydraulic filters for construction machinery. However, inspired by its long-lasting trapping power, this time we have used this new material to produce the world's first nanofiber mask inner sheets. These mask sheets are used by our employees firstly, hoping that these sheets will help reduce the impact of the shortage of masks.

*Mask inner sheets: Sheets to be put on the inner side of the mask to assist in collection performance

◆ Nanofiber mask inner sheet

Many of the commonly used disposable masks on the market trap dust and viruses by static electricity. Due to the high moisture absorption from exhaled breath and extended use, the collection performance of those masks greatly reduces over time.

Our nanofiber mask inner sheet has a 3D structure made of extremely thin fibers less than one-tenth of general synthetic fibers, which has super-high trapping properties. In-house tests have proven that our mask inner sheet shows almost no decrease in collection performance even after long-term use because there is no dependence on static electricity. (Assuming that new masks' collection performance is 100%, the performance of the commercially available surgical mask A drops to 35% after 24 hours, while the performance of the nanofiber mask inner sheet is maintained at 91% or more)

"YAMASHIN Nano Filter™" is an innovative material with new possibilities. We will continue to make use of this flexible and high quality material to solve various problems that existing materials have not solved.



Inner sheet roll installed at the employee entrance
About 2,500 sheets per roll

□□□ Notes regarding mask usage and purchase □□□

It is essential that people suspected of a cold or an infection wear masks to prevent the spread of infection.

For that end, we do hope that people should only purchase the number of masks they need.

If you do not have a disposable mask, use a substitute such as a gauze mask, and wash your hands properly and frequently.

See below for details.

[\[Consumer Affairs Agency \(JP\) 新型コロナウイルス感染症の拡大に対応する際に消費者として御注意いただきたいこと\]](#) (Notes to consumers about societal responsibilities to prevent spread of the COVID-19 virus. (Only available in Japanese))

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