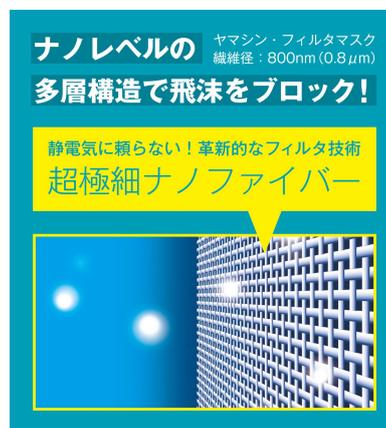


A world-class specialist in hydraulic filters for construction machinery develops masks with original technology!

## Release of the "YAMASHIN-Filter Mask" – the ULTIMATE MASK.

Coupled with release of "YAMASHIN-Filter Sheet" that improves the performance of your cloth mask and handmade mask.



May 18<sup>th</sup>, 2020 - YAMASHIN-FILTER CORP.(Atsuhiko Yamazaki, President and CEO) - a Global leader in the design and manufacturing of hydraulic filters for construction machinery with a 70% domestic market share has started pre-sale of domestically produced masks and mask sheets. These new masks and sheets are made with synthetic polymer nanofiber "YAMASHIN NANO FILTER™" that uses our proprietary mass production technology. Website: <https://yamashin-filter.shop-pro.jp/>

Due to the lack of masks worldwide caused by COVID-19, the market has been flooded with poor performing masks that are not sufficient for collecting fine particles.

The masks and mask sheets released by YAMASHIN-FILTER CORP. core technology provides superb filtration efficiency via the world's first proprietary nanofiber mass production technology. We have developed it as a product that you can use with confidence.

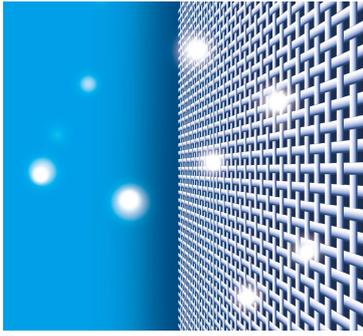
We aim to contribute to society by reducing the impact on people's health damage and serious mask shortage as much as possible by utilizing the knowledge of filter development cultivated over 60 years as a global filter manufacture.

### ◆ Product Summary

Product Name	YAMASHIN-Filter Mask		YAMASHIN-Filter Sheet	
Images				
Size	175mm × 95mm		140mm × 85mm	
Number of sheets	5 pieces		30 pieces	
price	825 Japanese Yen (Tax Included)		1,078 Japanese Yen (Tax Included)	
Sales channel	advance sale on the Yamashin Filter website ( <a href="https://yamashin-filter.shop-pro.jp/">https://yamashin-filter.shop-pro.jp/</a> ) From May 18th, 2020, * Scheduled to begin sales at retail stores and pharmacy in June			
First shipment	35,000 packages		8,000 packages	

Used in combination with your own mask.  
\* The mask body is not included.

# ◆ Features of masks and mask sheets by YAMASHIN NANO FILTER™

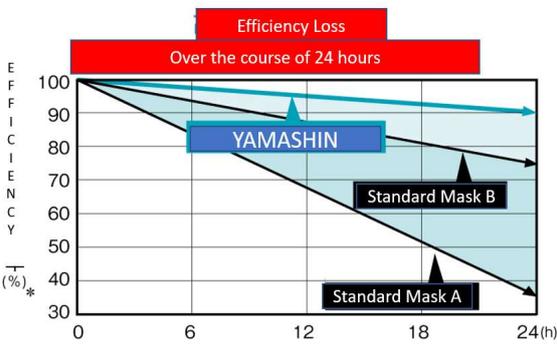


General mask filter

## 【Features① Achieves excellent filtration performance via ultrafine fibers with a three-dimensional structure】

The chemical fiber used for general mask filters has a flat (two-dimensional) shape with a diameter of about 3μm, whereas “YAMASHIN NANO FILTER™” has a nano-sized fiber diameter of 0.2-0.8 μm and a three-dimensional structure.

As a result of three-dimensionally entangled fibers in the nano cotton, there are hundreds of millions of ultra-fine voids, and foreign substances such as viruses are efficiently collected in the voids. In addition with that, air can pass smoothly.



## 【Features② Slight deterioration in performance even when used for a long time!】

As shown on the graph to the left – the efficiency performance of a new mask deteriorates after wearing for 24 hours.

While general masks collect viruses by “electrostatic charging”, our mask filter mainly collects in nano-level voids, so the collection performance will not deteriorate as much even if used for a long time. With general disposable non-woven masks, when used for 24 hours, the initial performance drops to about 35%, while high-performance masks also drop to about 78%, while masks using our mask filters maintain about 90% performance.

※ Based on in-house evaluation results (measurement conditions: particles 0.3 μm)  
 ※ The performance of collecting dust with static electricity gradually deteriorates with the evaporating water vapor and the passage of time



Soak the mask in warm water with a small amount of neutral detergent.



Rinse gently and rinse thoroughly with water.



Shape it, press it down with a cloth to dehydrate it, and dry it in the shade.

## 【Features③ Can be used repeatedly by push washing and alcohol disinfection.】

Many of the general masks remove the static electricity charged by washing with water or disinfecting with alcohol, which significantly reduces the collection performance.

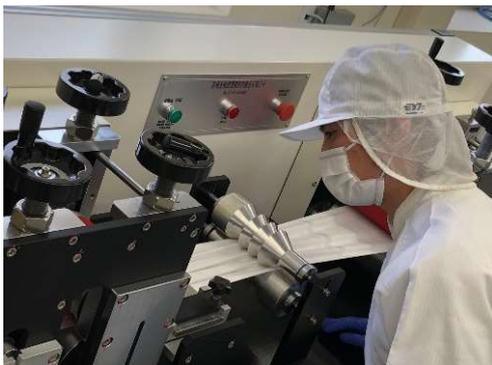
On the other hand, our masks and mask filters have been proved by in-house tests that the collection performance hardly deteriorates even after pressing and washing five times.

## 【Features④ Made in Japan to secure stable supply!】

Although 80% of the masks supplied in Japan are currently manufactured overseas \*, our mask filters are manufactured in the clean room of our own factory in Saga, Japan Prefecture. A stable supply is possible regardless of the situation overseas.

With the know-how cultivated by construction machinery filter manufacturers that require high filtration accuracy, we can manufacture sheets of uniform thickness.

\*Source: Japan Sanitary Materials Industry Association (Quotation permission number 210)

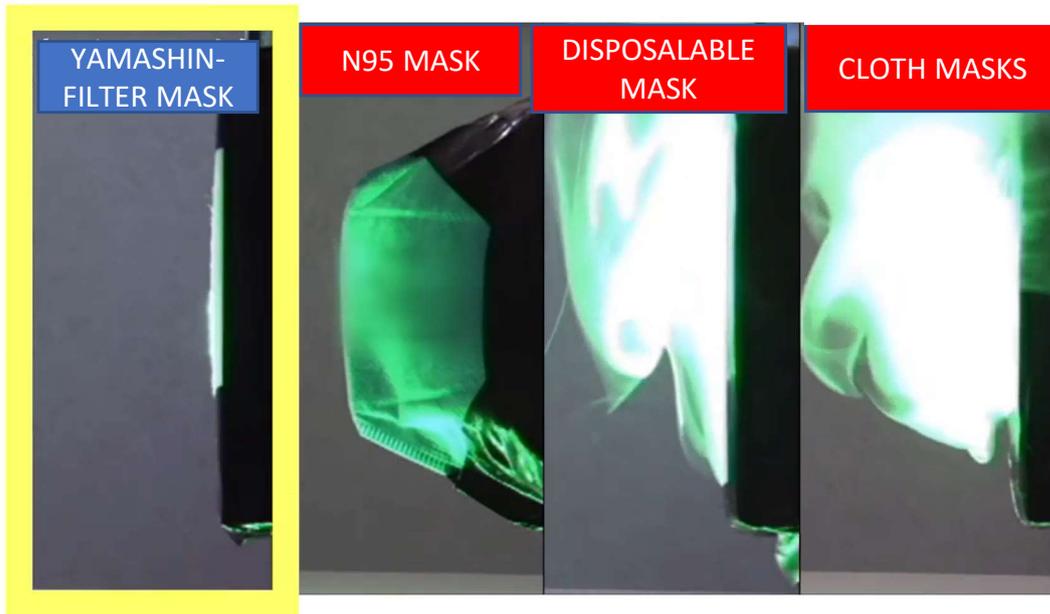


◆ **"Yamashin filter mask" has the same performance as "N95 mask" used in the medical field**

We conducted a unique comparison experiment targeting four types of "YAMASHIN-Filter Mask", "N95 mask", "general disposable non-woven mask" and "cloth mask", and published a video of the situation on our website.

Using a dust generator, debris with a diameter of 1  $\mu\text{m}$ , which is the same size as bacteria, was generated and passed through each mask at a wind velocity of 2.6 m / s. It turns out that the dust easily passes through. On the other hand, "YAMASHIN-Filter Mask" has the same collection performance as "N95 mask", which is in high demand in the medical field.

Note that "general disposable non-woven masks" and "cloth masks", which have low collection performance, can exhibit performance comparable to that of "YAMASHIN-Filter Masks" when used in combination with "YAMASHIN-Filter masks".



URL : <https://youtu.be/-7eEaGAJt-U>

◆ **"YAMASHIN-Filter Mask" 500 sheets and "YAMASHIN-Filter Sheet" approximately 3000 sheets were donated to Jikei University Hospital and Toho University Hospital**

Prior to the general release, 500 "YAMASHIN-Filter Masks" and about 3,000 "YAMASHIN-Filter Sheets" were donated to Tokyo Jikei Medical University Hospital (Minato Ward, Tokyo) and Toho University Hospital (Ota Ward, Tokyo).

The lack of masks is still a serious problem at medical sites that protect people's lives, and we will continue to establish the best supply system in cooperation with medical institutions globally.

