

Bringing any Mask up to Medical Grade Standards

The Ultimate Mask Filter is created by applying the same technology used in hydraulic pump filters, which requires the most precise type of filter performance.

The Ultimate Mask Filter sheet ensures that you are protected against even the smallest particles, whilst retaining performance for a long time.

World-class Filtration Technology

100% made in Japan

Innovative 3D Nano Technology Filter



Use the YAMASHIN Filter Sheet with your favorite Mask

Compatible with masks made from different materials. Use the YAMASHIN Filter Sheet with your disposable or handmade masks.

A single YAMASHIN Filter Sheet quickly transforms any mask into a high-performance mask!

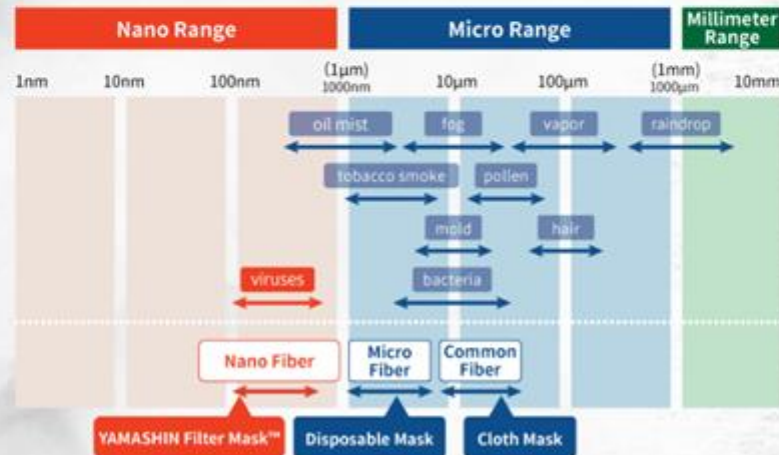


Technical Capabilities

Decorative and Cloth Masks Cannot Provide Fine Particle Filtration Like YAMASHIN Filter Masks

While some disposable masks available for general hygiene purposes may have antibacterial properties, these masks do not filter out nano-level particulate contamination. This means these masks cannot filter out fine dust and viruses over a sustained period.

Using filtration materials made from the finest Nano fibers, masks and filters made by YAMASHIN can prevent even the smallest particles such as dust, pollen and viruses from entering the respiratory system.



Technical
 Capabilities

YAMASHIN-FILTER CORP. masks and sheets developed using world-class technology

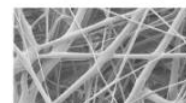
Feature 1

"The ability to stop invisible contaminates using a multilayer 3D filtration system"

The synthetic fibers in conventional disposable masks use a rough mesh to trap dust and viruses using an electrostatic charge. YAMASHIN masks and filter sheets use complex technology featuring Nano level three-dimensional structures providing superb filtration performance. By weaving Nano fibers using our patented technology our masks can trap viruses more consistently over long periods of time. This Nanotechnology, developed by YAMASHIN, is so effective that it can be used in the medical field.

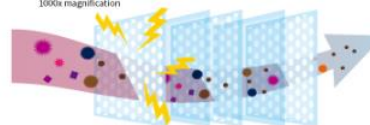
Comparison of Collection on Differing Structures

General Disposable Masks

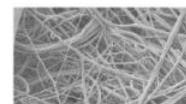


1000x magnification

Relies on an electrostatic charge to capture dust on the rough surface structures.



YAMASHIN Filter Masks and Filter Sheets



1000x magnification

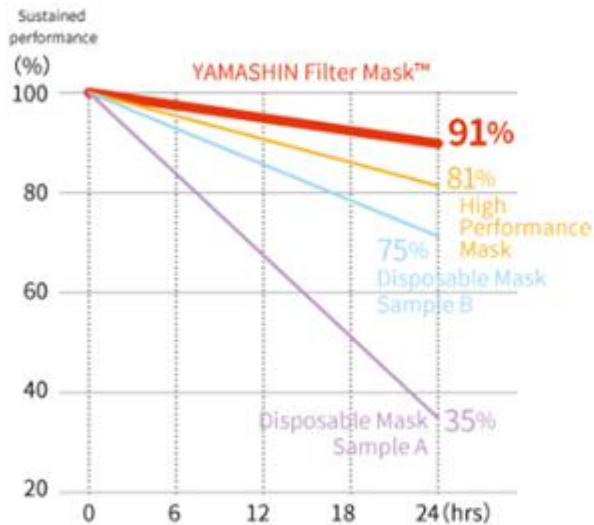
Catches viruses and other small particles using fine 3D layered Nano Fibers.



Utilization of nano fiber (YAMASHIN Nano Filter™)

Performance Degradation over 24 hours

* Based on in-house evaluation results (measurement: particles 0.3 μm)



Minimal deterioration of filtration performance over 24 hours

Feature 2

"Mask users are kept safe and protected with performance lasting over 24 hours"

Most commercially available masks use static electricity to capture dust and viruses. Due to the buildup of moisture within these masks, performance drastically decreases over time. Our research has shown that this can be up to 65% over a 24-hour period. As YAMASHIN masks rely on fibers that capture particles on a Nano level, filtration performance is only decreased by 9% over the same period.

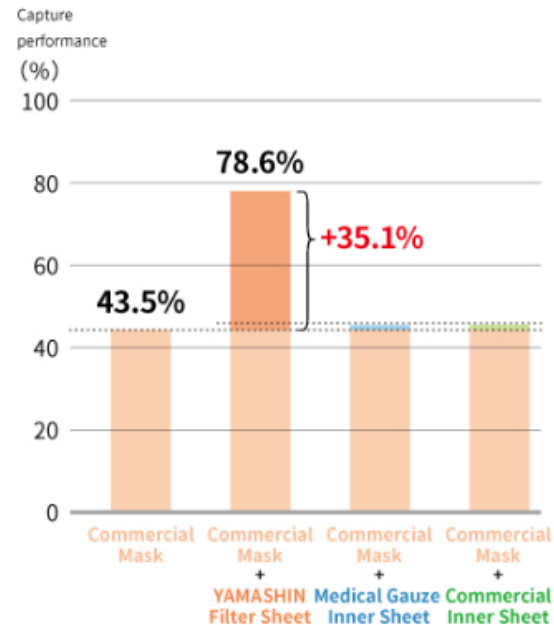
Feature 3

"Upgrade your mask with YAMASHIN Filter sheets to improve performance"

Antibacterial inner sheets used with general commercial masks and disposable mask filtration efficiency can be improved. The YAMASHIN Filter sheet can be used with a variety of different masks and has superior filtration performance; catching the smallest of particles.

Performance test with YAMASHIN Filter Sheet

* Based on in-house evaluation results (measurement: particles 0.3 μm)





Feature 4

**"YAMASHIN filter masks
and sheets are
100% made in Japan by a company
established for over 65 years"**

Around 80% of the general masks currently sold in Japan are produced overseas, which can lead to supply and quality issues. 100% of YAMASHIN filter masks and sheets are produced domestically at our own factory in Saga prefecture. With our state-of-the-art machinery, and experience in manufacturing high performance filters for construction machinery, we have realized the distinguished production system of high grade nanofiber to meet our strict quality control standards.

本報告書の全部又は一部の無断
 転載転用を固くお断りします。

KAKEN

No. 0S-19-077556

(A) 試験報告書

依頼者 ヤマシンのフィルタ 株式会社 殿
 品名 ① 高性能マスク ②200225-6 計2点
 試験項目 微粒子捕集効率 (PFE)

2020年 3月 9日付けで当所に提出
 された試料の試験結果は下記のとおりです。

カケン
 〒550-0002 大阪市西区江戸堀2丁目1番19号
 一般財団法人 **カケンテストセンター**
 大阪事業所 資材室
 Tel (06)-6441-0315 Fax (06)-6441-2420

2020年 3月13日

記

(B) 1. 試験結果

(C) 試験項目	(D) 試験結果	
	①	②
微粒子捕集効率 PFE (%)	1	99.9
	2	99.8
	3	99.7
	4	99.8
	5	99.8
	平均値	99.8

(E) 2. 試験方法

ASTM F 2299
 ただし、粒子の中和を行わない。

(F) 試験条件

試験面積: 49.0 cm²
 試験流量: 28.3 L/min
 粒子径: 0.1 μm (0.100±0.003 μm)
 粒子の種類: JSR SIZE STANDARD PARTICLES SC-0100-D (JSR ライフサイエンス㈱製)
 真球状ポリスチレン系標準粒子

(H) 3. 試料

① KAKEN KAKEN KAKEN KAKEN
 ② KAKEN KAKEN KAKEN KAKEN

以上

本報告書に記載の試験結果は供試々料に対するものであり、荷口(ロット)全体の品質を報告するものではありません。
 事業所未印のない報告書については、当財団は一切責任を負いかねますので、念のため申し添えます。

確認 作成
 

Captures 99.8% of 0.1 μm

- A : Test Report
- B : Test Results
- C : Test Items
- D : Test Results
- E : Test Method
- F : Test Conditions
- G : Test Area
- Test Flow Rate
- Particle Size
- Particle Type
- H : Sample
- I : Capture Efficiency