

Present the SAFETY KIT

For Fire Escape

# Anti- Fire Smoke MASK

Prepare a Fire, wherever you are



Home



School



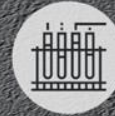
Office



Public Place



생명 숨수건 (SaengMyeong SoomSooGeon)  
means **Anti Fire Smoke Mask** for fire escape



Special  
Solution



7-piece  
Filter



Respiratory  
Protection



Quick  
Evacuation

This **Anti Fire Smoke Mask** is a circular handkerchief in the form of a seven-piece filter wet with a special ingredients.

It protects your breathing from poisonous gas and helps you to escape when you hide your nose and mouth in case of fire.





## **Natural ingredient special solution**

### **Functional special solution : Moisture Barrier**

Natural Ingredients harmless to human body, Sulfur component mineral water, Dongchimi liquid fermentation extract, trehalose, hyaluronic acid and xylitol, composed of fermented extract, neutralize harmful gas and form a moisture barrier to minimize harmful gas inhalation.

### **17 Herbal Extracts : Stay Calm Evacuation**

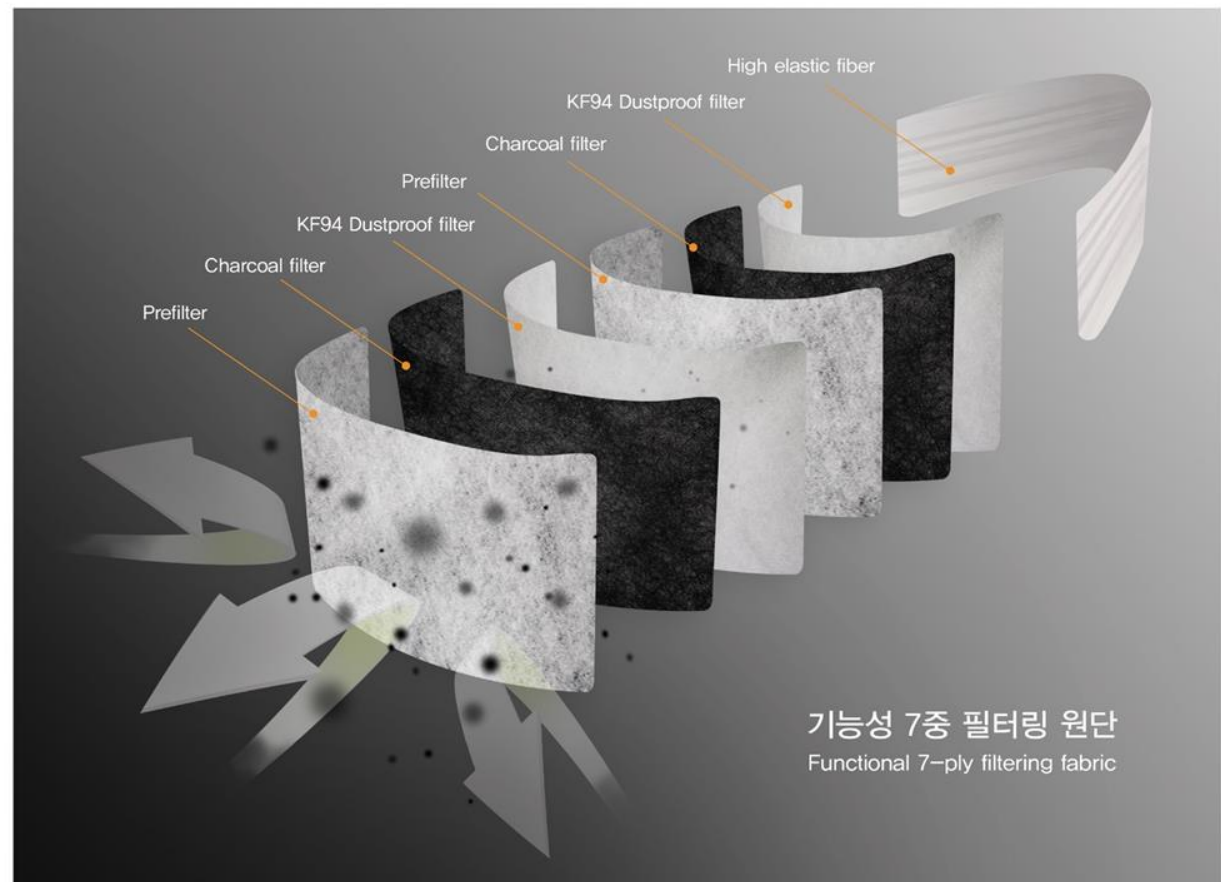
It is composed of ingredients that keep your mind stable in emergency situations. It is a very effective solution to induce calm evacuation and to lower the temperature of ingestion from toxic gas to ease breathing.





## Functional 7-layer Filtering System

It uses filter fabric of KF94 level which is used for dustproof mask and dust mask, and charcoal filter and prefilter fiber are composed of 7 layers.





## Respiratory protection from toxic gases

In the first 5 minutes of the fire, toxic gases such as phosgene, hydrochloric acid, sulfuric acid, and cleansing gas should be avoided more than carbon monoxide, so wet mask method is very effective.

The National Emergency Management Agency (NEMA) strongly urges the wet mask method to wet the handkerchief or the clothes in the event of a fire, to close the nose and mouth and to escape in a low position.

This is because the wet mask method filters about 400 kinds of fire toxic gases by 70~80%, and is superior in performance to dry masks method.

In the initial fire, it keeps the breathing from the fine particles of the water and the water safe combustible, and it prevents the dyspnea and gives **psychological stability**.

This product is very effective for calm fire escape.





## Easy Wear, Fast Evacuation

Take out the product, put the hand in the middle of the cylinder, and use it as a mask when you wear it on your head in case of need. Because the high elastic fiber fabric stretches freely, it can be used as a double structure (handkerchief / mask) depending on the situation.



**Wearing time : 5-6 seconds**

**Use time : 15 minutes**

Everyone can wear easily

## How to use



### **01. Product unpacking**

If there is any indication of smoke or fire, the product will be opened immediately. Ten perforations are made for easy opening in emergency situations.



### **02. Product wearing**

Put the hand in the middle of the cylindrical shape of the product, wrap it around the nose and mouth, open your mouth wide, and then breathe in your nose and mouth at the same time.



### **03. Use turning around**

It is used to keep the solution dry during the breathing due to the flame heat. It is possible to maintain a moisture barrier and to have a toxic gas filtration effect for a sufficient time.



### **04. If you've difficulty using your hands**

This product will be worn on your head left and right. To maximize the adhesion, the breathable towel is made of double-layered high-elastic fabric, allowing you to escape by freeing your hands.



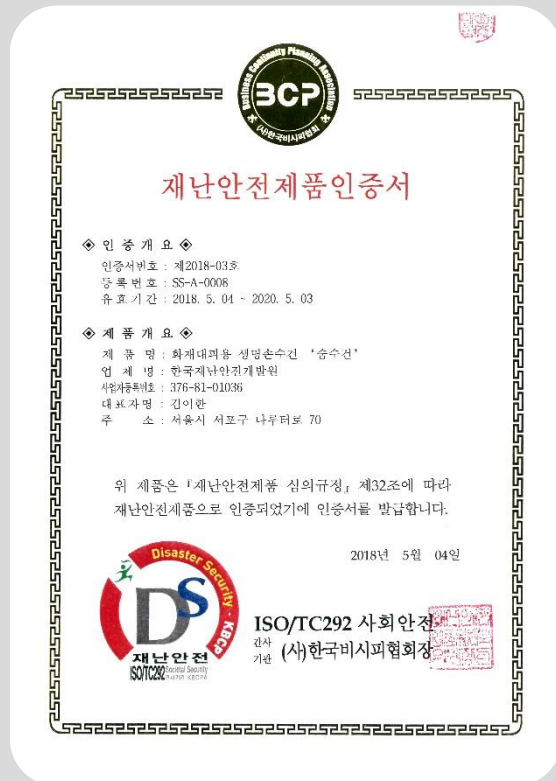
### **05. Evacuate your face**

Please calmly escape in a low position. If there is a risk of burns due to flames, please use the half-split of this product.





# Install Simulation




## Disaster Safety Certification





# Test report, harmful gas removal efficiency



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T : 1600-6687 F : 02-6004-5978  
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**Test report**

Request No : AATR20180629-001      Request date : 2018. 6. 29  
Report No : KSA118G00902001      Issue date : 2018. 7. 9

Company : Korea Disaster Safety Development Institute      Purpose of use : Quality control  
Address : 70, Naruto-ro, Seocho-gu, Seoul, Republic of Korea  
Person : Kim I Han  
Submit Company :  
Name of Sample : Rescue Towel 'Soom Su Guri'

Test item	Test result
KS K 0693.2011	Sample
<i>Staphylococcus aureus</i> ATCC 6538	Antibacterial activity (%) 99.9
Concentration of Inoculum	$1.1 \times 10^6$ CFU/mL
<i>Pseudomonas aeruginosa</i> ATCC 4352	Antibacterial activity (%) 99.9
Concentration of Inoculum	$1.5 \times 10^6$ CFU/mL

■ Control Fabric : ISO 105 F02 Cotton

Korea Standard Test Researcher

Remark 1. This report is the result of test conducted by company's samples only. It does not guarantee the quality of all products.  
2. This report cannot be used for advertisement, campaign, and legal purpose without KSTR's permission. Do not use for any other purposes.

Target gas	Test Concentration (ppm)	Breakthrough Concentration (ppm)	Removal Efficiency (%)	Duration (min)
Carbon monoxide (CO)	100±10	11	87	More than 5mins minimum
Hydrogen Chloride (HCL)	80±5	5	92	More than 12mins minimum
Sulfur Dioxide (SO <sub>2</sub> )	40±5	2	92	More than 6mins minimum
Ammonia (NH <sub>3</sub> )	60±5	3	90	More than 6mins minimum

This product fabric has a thick layer of undiluted solution for each seven layers of fabric layer, so it is more efficient to remove harmful gas than general dry filter type gas mask.

This product is made in a cylindrical shape with both ends connected to each other. It can be used for more than 5 minutes if only one part is used intensively after opening the fabric of the handkerchief.

This product is basically sterilized and then packed in a vacuum process. The solution contains harmless natural ingredients, so it can be used for 3 years or more for up to 5 years without deterioration.

The storage period is at least 3 years when stored in a normal environment. It is designed to be stored for up to 5 years when stored in a suitable environment avoiding high temperature or low temperature places and not exposed to direct sunlight.

[illegible]

## Gift Set



Storage front  
desk clock

Smoke detection hole



4 Anti fire smoke mask  
in box



In-box  
Fire detector



## Phosphorescent self-emission and Acrylic storage box





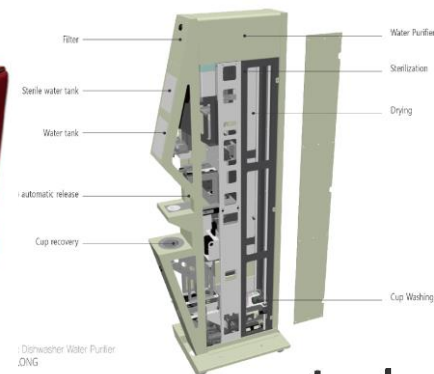
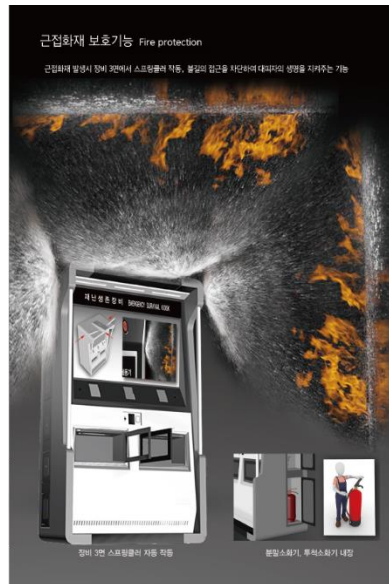
# Solar hybrid LED lighting type steel storage box



# Maker Introduce



**Korea Disaster Safety  
Development Institute**



## **FAQ**

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### **Q. How do I open it if there are signs of smoke or fire?**

A. Ten perforations are made to open easily in emergency situations.

### **Q. There's too much solution, so it's hard to breathe.**

A. You may feel difficulty breathing on first use, but this is normal for filtering harmful gas and you can breathe smoothly after 1~2 breaths. In addition, although the solution can be sucked in with the breathing, the solution is a harmless component to the human body. As a result, the rate of simultaneous air and liquid inhalation is less than 90~98% of the air inhalation and less than 5% of the liquid inhalation. (Korea Filter Test Laboratory(KFTL))

A. The solution has been fully filled to maintain moisture for more than 3 years. If it is difficult to breathe a little at the first opening, you can use a little squeeze solution from the handkerchief.

### **Q. How long is it used?**

A. The cylindrical structure of this product is specially designed to use evenly during the breathing to keep the solution from drying out due to flame heat. If you use it by turning it, you can see toxic gas filtration effect for more than 15 minutes while maintaining moisture barrier.

### **Q. Isn't it hard to use your hands when you evacuate?**

A. It is made of double-layered fabric of high-elasticity fabric that maximizes the adhesion so that it can be worn on the head in case of need and escape by freeing the hand.

### **Q. Will not it be damaged by the flame?**

A. It is useful to catch hot objects such as heated door knobs. If there is a risk of burns due to flames, please divide the connecting parts of the breath towel in half and wrap it in your face.

### **Q. How many years is the shelf life of this product?**

A. The storage period is at least three years when stored in a normal environment. It is designed to be stored for up to 5 years when stored in a suitable environment avoiding high temperature or low temperature places and not exposed to direct sunlight.

### **Q. Do you have fire certification?**

A. This product is not a fire fighting supplies, but a fire fighting aids. Therefore, it is classified as a commodity and does not need any certification, but it is a product that obtained disaster safety product certification (registration number SS-A-0008).

### **Q. Is the mask harmless to the human body?**

A. Anti Fire Smoke Mask for fire evacuation the following is a list of the components of the specialist organizations that have requested safety evaluation. "All ingredients of your product seem to be made up of edible ingredients. While wet wipes contain cleaning raw materials, fragrances and preservatives compared to regular wipes, all ingredients of your product use natural, edible ingredients and ingredients I do not see the problem."

A. The MSDS(Material Safety Data Sheets) of all ingredients of Anti Fire Smoke masks for fire escape are available.

### **Q. Is there a mask test report for fire escape?**

A. There is an antibacterial test report from the Korea Standards Test Institute and a filter test report from Korea Filter Test Lab.

# Thank you



**한국재난안전개발원**

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