

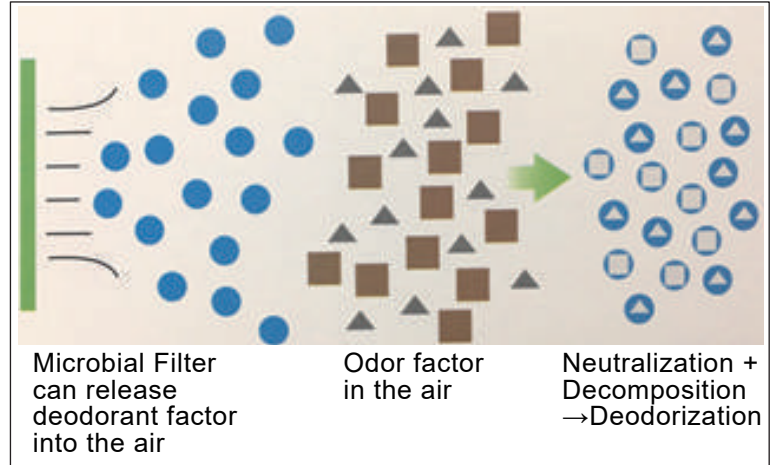
Multipurpose Microbial Filter-Deodorant & Anti-Bacteria

Product Selection



Material Overview

- ◆ To inhibit microbial growth and protect the integrity of the filters media.
- ◆ The natural ingredients which can reduce or eliminate odor in the air efficiently.
It kills odor from the cause which can last longer than regular product.
- ◆ Hinokitol is not only working for reduce fungus and bacteria, but also removing dust mite and other harmful material from the environment.



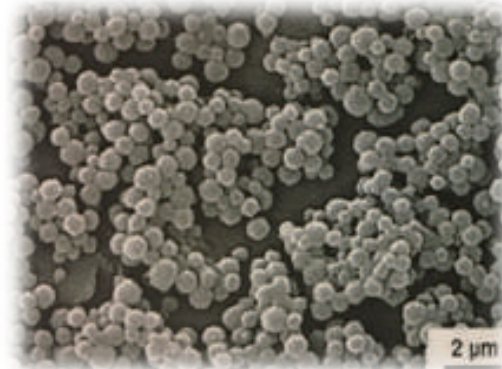
Air Filter Selection	Advantage	Coating Ingredients	Application
Pre-Filtration	Deodorant & Anti-Bacteria	Main ingredient "Hinokitol". Total 25 natural ingredients	Food Factories、Department Store、Airport、Office、Hotel
Secondary-Filtration	Ditto-	Ditto-	Hospital、Bio-Tech
Final Filters	Ditto-	Ditto-	Cleanroom

Ingredients

- ◆ Hinokitol、Rosemary、lavender、Neem、Bamboo grass、argyi、green leaf exact、eucalyptol、jasmine、grapefruit、cinnamon, etc. Total 25 natural ingredients.

Unique-Technology

- ◆ Porous Microencapsulation with special procedure.
- ◆ Can help the anti-odor material to be accumulated to 14 layers and 270% o · w · f.
- ◆ Can prevent the immediate odor and block it happens again.



※ The capsule diameter is 2 μm with amount of 7 mm to 8 mm, which inserts and dry to the filter 7 times.



Multipurpose Microbial Filter-Deodorant & Anti-Bacteria

Application

- ◆ Install on the outlet of air condition, fans and air purifier.
- ◆ The effectiveness of reducing odor can be felt immediately.
- ◆ Can kill the smell and smoke of the cigarette right away.

Where To Use ?

Cleanroom Equipment



HVAC System



AHU



Hospital



Department Store



Airport



OGAYA

Your Air Quality, Our Responsibility
OGAYA FILTER CO., LTD



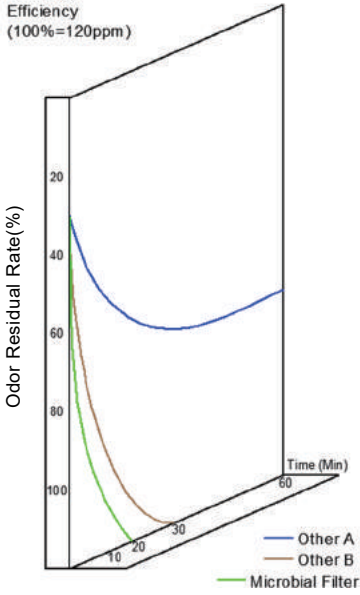
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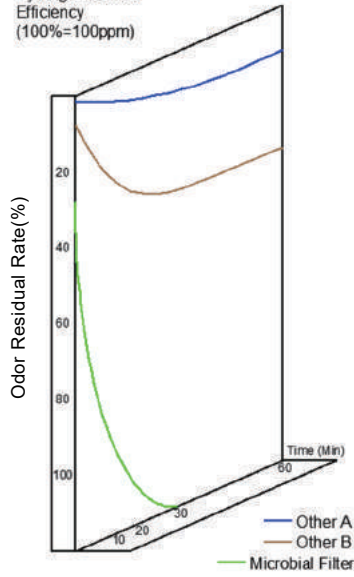
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Comparison of deodorant < Ammonia \ Hydrogen Sulfide \ Trimethylamine \ Methyl Mercaptan >

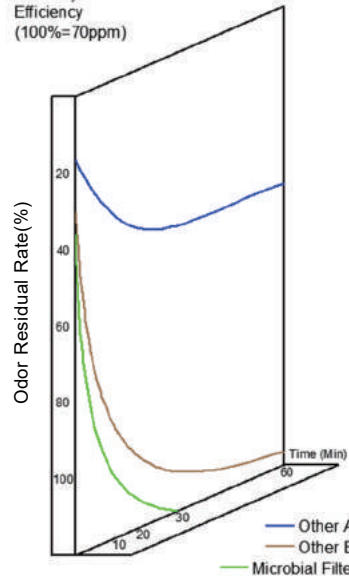
Ammonia Efficiency (100%=120ppm)



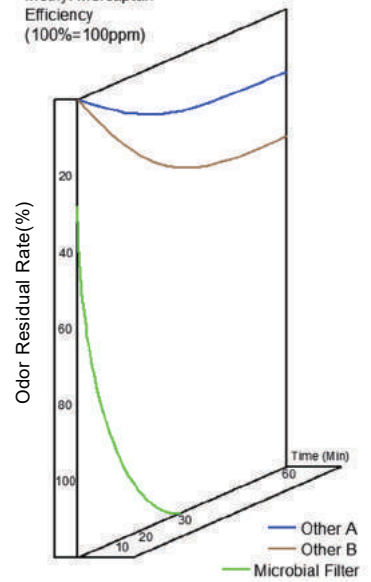
Hydrogen Sulfide Efficiency (100%=100ppm)



Trimethylamine Efficiency (100%=70ppm)



Methyl Mercaptan Efficiency (100%=100ppm)



High Performance On Deodorant & Anti-Bacterial

Deodorant Performance				
Gas	Initial odor concentration	After 24 hours		
		Control odor concentration	N=1	N=2
Methyl Mercaptan	140	83	0(100)	0(100)
Hydrogen Sulfide	320	290	0(100)	0(100)
Methyl Butyrate	27	5	0(100)	0(100)
Trimethylamine	70	53	0(100)	0(100)
Formaldehyde	50	11	0(100)	0.25(98)
Toluene	260	100	0(100)	0(100)
Alcohol	1100	420	20(95)	20(95)
Xylene	250	60	0(100)	0(100)
Styrene	300	80	1(99)	0(100)
Ammonia	960	230	1.5(99.3)	0.6(99.7)
Pyridine	55	7.5	0(100)	0(100)
Acetic acid	65	6	0.3(95)	0.2(97)
Acetaldehyde	140	80	0(100)	0(100)
Nicotine Stink	25	6.5	0.1(99)	0.1(99)

Unit: ppm, () is for deodorization rate (%)

Anti-Bacterial Activity		
Species	Testing Bacteria	Effect
Bacteria	LEP (Legionella pneumophila)	V
	E. coli	V
	Staphylococcus aureus	V
	Pyocyanin	V
	Pneumoniae	V



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