



Against virus infection

Powder dust prevention

◇USE

- Prevention against hospital infection
- Medical Mask (surgical mask)
- Visiting to or staying at medical treatment facility where we concern about infection
- In the crowd
- Place where there might be new flu infection



Characteristics

- Using high quality special activated CarbonFiber
- Catching odor such as bad breath or empyema
- Catching infection virus such as new type virus
- Fitting to face by 3D structure



◇Specification

- Size: Adult
- Standard Color: White
- Ear suspension type

Sales unit

- 50qty/box × 50box = 2500qty/carton
- Retail sales
- 50qty in one box

※It fits to **【NIOSH-N95】** which is dust mask specification.
It has same function with **【EN149 FFP2】** which is EU specification.

◆Mask Function U.S. NIOSH N95

Bacterial Filtration Efficiency	99.9 %	
Particle Filtration Efficiency	98.68 %	
Air Exchange Pressure (ΔP)	9.46mmH ₂ O/cm ²	
Fluid Resistance	80mmHg - none	
Antibacterial activity test	Staphylococcus aureus	99.9 %
	Klebsiella pneumoniae	99.9 %
	Eschericia coli	99.9 %

General saler



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ACF Mask 【3DType JP】

Performance Test

Test Items	Test Results	Test Methods
1. Bacterial Filtration Efficiency Staphylococcus aureus	1 99.8% 2 > 99.9% 3 > 99.9% 4 > 99.9% 5 > 99.9%	ASTM F2101-2007 ATCC 6538
2. Particle Filtration Efficiency (0.26 μm, NaCl)	98.68%	NIOSH 42 CFR84 TSI Model 8130 Mass mean diameter : 0.26 μm, NaCl Flow rate : 85.0 ± 4 Liter/min
3. Air Exchange Pressure (P)	9.46 mmH ₂ O/cm ²	MIL-36945C 4.4.1.2
4. Inhalation Resistance	24.03 mmH ₂ O/cm ²	NIOSH 42 CFR84 TSI Model 8130
5. Exhalation Resistance	22.56 mmH ₂ O/cm ²	
6. Fluid Resistance : 80mmHg	1 ~ 10 none	ASTM F1862-2000
7. Antibacterial Activity (S) Test Staphylococcus aureus	99.9 %	AATCC 100-1999
8. Antibacterial Activity (S) Test Klebsiella pneumoniae	99.9 %	
9. Antibacterial Activity (S) Test Escherichia coli	99.9 %	
10. Adsorption Activity Benzene	11.1 wt%	Concentration=20g/m ³ , Temperature=25 Velocity=0.3m/s
11. Adsorption Activity Toluene	11.6 wt%	ASTM D-3467-93
12. Adsorption Activity Carbon Tetrachloride	18.8 wt%	Concentration=250mg/L, Temperature=25 Velocity=10m/min ASTM D-3467-93
13. Cadmium (Cd)	N.D.	IEC 62321/2nd CDV(111/95/CDV) 12. Determination of Cadmium by ICP-AES 13. Determination of Lead by ICP-AES 14. Determination of Mercury by ICP-AES 15. Determination of Cr(VI) by UV/Vis Spectrometry 16 ~ 18. Determination of PBB and PBDE by GC/MS
14. Lead (Pb)	N.D.	
15. Mercury (Hg)	N.D.	
16. Cr (VI)	N.D.	
17. Sum of PBB	N.D.	
18. PBDE (Mono to Nona)	N.D.	
19. PBDE (Mono to Deca)	N.D.	

【Note】

- a. Item 1. Bacterial Filtration Efficiency indicates the filtration rate of average 3 μm particle including bacteria.
- b. Item 2. Particle Filtration Efficiency indicates the filtration rate of solid particle.
The test particle diameter is mass median aerodynamic diameter. It's 1/10 of count median diameter.
- c. Item 3. Air Exchange Pressure (Δ P) indicates the easiness of breathing.
- d. Item 6. Fluid Resistance (FR) shows how strong pressure mask can be tolerance if fluid (blood) is scattered.
- e. Item 3 and 4 are tested by Industrial Technology Research Institute.
- f. Item 1, 2 and 5, 6 are tested by Taiwan Textile Research Institute.
- g. Item 7 ~ 9 are tested by ITS Intertek Testing Services Taiwan Ltd.
- h. Item 10 ~ 12 are tested by Industrial Technology Research Institute.
- i. Item 13 ~ 19 are tested by SGS Taiwan Ltd.