

# Against virus infection For hospital setting



## ◇USE

- Prevention against hospital infection
- Medical Mask (surgical mask)
- Microorganism and virus analysis at research site
- Against pollen to one with serious pollen allergy

NIOSH N99

EN CE EN149

2001FFP3 NR

Function



## ◇Characteristics

- Using high quality special activated CarbonFiber
- Blocking dust and bacteria out more than 99%
- Catching infection virus such as new type virus
- Fitting to face by 3D structure



## ◇Specification

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

## ◇Sales unit

- 30qty/box × 20box = 600qty/carton
- Retail sales
- 30qty in one box

※EN specification was established as European standard for EU integration.  
U.S.NIOSH specification N95 has same function of 【EN149 FFP2】.  
Actual function reaches to 【EN149 FFP3】，the highest specification.

## ◆Mask Function CE EN149:2001 FFP2 NR

Bacterial Filtration Efficiency	99.9 %
Particle Filtration Efficiency	99.3 %
Air Exchange Pressure ( $\Delta P$ )	9.16mmH <sub>2</sub> O/cm <sup>2</sup>
Fluid Resistance	120mmHg—none
Antibacterial activity test	Staphylococcus aureus 99.9 %
	Klebsiella pneumoniae 99.9 %
	Escherichia coli 99.9 %

● General saler

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# ACF Mask 【C Type】

## Performance Test

Test Items	Test Results	Test Methods
1. Bacterial Filtration Efficiency Staphylococcus aureus	1 99. 8% 2>99. 9% 3 99. 8% 4>99. 9% 5>99. 9%	ASTM F2101-2007 ATCC 6538
2. Particle Filtration Efficiency (0.26 μm、NaCl)	99. 30%	BS EN 149 : 2001 7.9.2 TSI Inc., Model 8130 Flow rate : 95Liter/min Mass mean diameter:0.26 μm, NaCl
3. Filtration Efficiency	E=99. 802%	BS EN 149 : 2001 7.9.2 TSI Inc., Model 8130 Flow rate : 95±0.2Liter/min
4. Pressure Drop (ΔP)	18. 8mmH <sub>2</sub> O/cm <sup>2</sup>	Mass mean diameter:0.26 μm, NaCl
5. Air Exchange Pressure (ΔP)	9. 16mmH <sub>2</sub> O/cm <sup>2</sup>	MIL-36945C 4.4.1.2
6. Fluid Resistance : 120mmHg	1~10 none	ASTM F1862-2000
7. AntibacterialActivity(S) Test Staphylococcus aureus	99. 9 %	AATCC 100-1999
8. AntibacterialActivity(S) Test Klebsiella pneumoniae	99. 9 %	
9. AntibacterialActivity(S) Test Escherichia coli	99. 9 %	
10. Adosorption Activity Benzene	11. 1wt%	Concentration=20g/m <sup>3</sup> , Temperature=25°C Velocity=0.3m/s
11. Adosorption Activity Toluene	11. 6wt%	ASTM D-3467-93
12. Adosorption Activity Carbon Tetrachloride	18. 8wt%	Concentration=250mg/L, Temperature=25°C Velocity=10m/min ASTM D-3467-93
13. Cadmium(Cd)	N. D.	IEC 62321/2nd CDV(111/95/CDV)
14. Lead(Pb)	N. D.	13. Determination of Cadmium by ICP-AES
15. Mercury(Hg)	N. D.	14. Determination of Lead by ICP-AES
16. Cr(VI)	N. D.	15. Determination of Mercury by ICP-AES
17. Sum of PBB	N. D.	16. Determination of Cr(VI) by UV/Vis Spectrometry
18. PBDE(Mono to Nona)	N. D.	17~19. Determination of PBB and PBDE by GC/MS
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 4. 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.