# ACF Mask Activated Carbon Fiber

# **MiraMask** Cone Type

# Against dust in mines factories and construction sites



### USE

- Dust discharging sites
- · Harmful gas discharging sites
- · Fine particle matters and harmful gas discharging
- · Works at mines dischargin dust
- · Natural disaster sites, earthquake · volcano
- Dust discharging facilities such as factories or construction sites

NIOSH N99 EN CE EN149 2001FFP3 N **Function** 



- · Using high quality special activated CarbonFiber
- · It effectively functions at harmful gas and dust sites
- · It fits to face by nosepiece and urethan
- · It is hardly off while works due to headband and easy to wear.



#### ♦ Specification

- · Size: Adult
- · Standard Color: Blue / White
- Head band type

XThere are masks with valve



- Sales unit
- · 20qty/box x 20box=400qty/carton
- •20 qty in one box

Retail sales

XEN 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.

\*Use masks satisfied with national assay in site regulated by Industrial Safety and Health Law





Mask Function CF FN149 2001 FFP2 NR

VIVIASK FUNCTION GE EN 149.2001 FFF2 INK			
Filtration E	fficiency	99.9 %	
Particle Filtration Efficiency		99.9 %	
Air Exchange Pressure (ΔP)		8.11mmH2O/cm <sup>2</sup>	
Fluid Resistance		120mmHg - none	
Adosorption Activity	Isoporpyl alcohol	10.0 %	
	Acetone	12.5 %	
	Toluene	13.5 %	
	Butane	13.0 %	

General saler



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# ACF Mask [CONE Type] Performance Test

Test Items	Test Results	Test Methods
1. Particle Filtration Efficiency	99.91%	BS EN 149-2001 7.9.2
(0.26µm、NaCl)		Mass mean diameter:0.26 µ m,NaCl
		Flow rate: 95Liter/min
2. Filtration Efficiency (E)	99.927%	Test Instruments:TSI Model8130
		Mass mean diameter:0.26 µ m、NaCl
3.Pressure Drop ( P)	$20.2 \text{mm}\text{H}_2\text{O}/\text{cm}^2$	Filter Flow rate: 95 ± 0.2Liter/min
4. Air Exchange Pressure (P)	$8.11  \text{mm}  \text{H}_2\text{O}  /  \text{cm}^2$	MIL-36945C 4.4.1.2
5.Breathing Resistance	1.77mBar (18.06mmH₂O)	BS EN 149-2001 7.16
6. Fluid Resistance (FR) : 120mmHg	1 ~ 10 none	ASTM F1862-2000
7.Adosorption Activity	1 10.0 %	ASTM D3467-94
Isoporpyl alcohol	2 10.0 %	
	3 9.8 %	
8.Adosorption Activity	1 12.5 %	ASTM D3467-94
Acetone	2 12.5 %	
	3 13.0 %	10711 20107 01
9. Adosorption Activity	1 13.5 %	ASTM D3467-94
Toluene	2 13.5 %	
10 Adoporation Activity	3 14.0 %	ACTM DE742 O
10.Adosorption Activity Butane	1 12.5 % 2 13.0 %	ASTM D5742-9
Dutane	3 13.0 %	
11.Formaldehyde Removed Ratio	8.0 %	Prepared 10ppm of Formaldehyde in 1m³ chamber.
12. Ammonia NH <sub>3</sub> Removed Ratio	10.0 %	Prepared 10ppm of Ammonia in 1m <sup>3</sup> chamber.
13. Benzene Removed Ratio	7.45%	Prepared 10mg/m <sup>3</sup> Benzene in 1m <sup>3</sup> chamber.
14. Removed Ratio of Cycloexane	5.42%	Prepared 10mg/m <sup>3</sup> Cycloexane in 1m <sup>3</sup> chamber.
15. Antibacterial Activity(S)Test Klebsiella pneumoniae	S=3.15	JIS L1902 ATCC No.4352
16. Sterilization Activity(L)Test	L=0.04	
Klebsiella pneumoniae		
17. Antibacterial Activity(S)Test	S=3.7	JIS L1902
Pseudomonas aeruginosa		ATCC No.9027
18. Sterilization Activity(L)Test Pseudomonas aeruginosa	L=0.04	
19. Antibacterial Activity(S)Test	S=2.95	JIS L1902
Staphylococcus aureus		ATCC No.6538P
20.Sterilization Activity(L)Test	L=0.84	
Staphylococcus aureus		
21. Antibacterial Activity(S)Test Escherichia coli	S=4.05	JIS L1902 ATCC No.8739
22. Sterilization Activity(L)Test	L=0.85	
Escherichia coli		
23. Antibacterial Activity(S)Test	S=2.3	JIS L1902
Salmonella		ATCC No.13311
24. Sterilization Activity(L)Test Salmonella	-	
25.Cadmium(Cd)	N . D .	IEC 62321:2008 25.Determination of Cadmium by ICP-AES
26.Lead(Pb)	N.D.	26.Determination of Lead by ICP-AES
27.Mercury(Hg)	N.D.	27.Determination of Mercury by ICP-AES
28.Cr(VI)	N.D.	28.Determination of Cr(VI) by UV/Vis Spectrometry
29.Sum of PBB	N.D.	29.Determination of PBB by GC/MS
30.Sum of PBDE	N.D.	30.Determination of PBDB by GC/MS
31.Far Infrared emissivity	80.0%	Calculate the value under the condition of 60 .

#### [Note]

The test particle diameter is mass median aerodynamic diameter. It's 1/10 of count median diameter.

- b . Item 4. Air Exchange Pressure (  $\triangle$  P ) indicates the easiness of breathing.
- c. Item 6. Fluid Resistance (FR) shows how strong pressure mask can be tolerence if fluid (blood) is scattered.
- d. Item 1, 4  $\sim$  5 and 6 are tested by Taiwan Textile Research Institute.
- e. Item 2 and 3 were tested by Industrial Technology Research Institute.
- f. Item 7 ~ 10 were tested by Chung-Shan Institute of Science & Technology Chemical Systems Research Division.
- g. Item 11 ~ 31 are tested by SGS Taiwan Ltd

a. Item 1.Particle Filtration Efficiency indicates the filtration rate of solid particle.