



中国认可
国际互认
检测
TESTING
CNAS L1842

FCL
No.002



佛山中纺联检验技术服务有限公司
CNTAC Testing Service Co.,Ltd.(Foshan)

Testing Report	Security website: www.fcl-sz.org.cn Security code: 2446648146
Report No: ZFLJ2634778C	Page 1 of 8

Applicant Information

Applicant Name : Airinum AB
Applicant Address : Ostermalmsgatan 26A, 114 26 Stockholm

Sample Information

Sample Description : Urban Air Mask 2.0
Style No. : L
Brand : Airinum
Sample Quantity : 70 pieces
Colour : Black

- Sample Receiving Date : 2020-07-07
- Report Date : 2020-08-01
- The original sample is stuck on the last paper.

Test Performed

Judgement according to:
GB 2626-2019 Respiratory protection— Non-powered air-purifying particle respirator .
- Selected test(s) as requested by applicants. For details, refer to attached page(s).

Pronounce

The results shown in this report refer only to sample(s) tested unless otherwise stated.
All the items are performed in the standard conditions, except the noted cases.
Except for the requirement of the client, the test results and the conformity judgement of this report do not take the uncertainty of the test results into account.

Signed for and on behalf of
CNTAC Testing Service Co.,Ltd.(Foshan)

Approved by

张起荣





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--- Test Result ---

Requirements	Test Result	Judgement
Basic requirements <u>GB 2626-2019 Section 5.1</u>		
The materials shall meet the following requirements:		Pass
Materials in direct contact with the face shall be harmless to the skin	Accordance	
The filter material shall be harmless to human body	Accordance	
The materials used shall have sufficient strength and shall not be damaged and deformed in normal use	Accordance	
Wear without obvious tenderness or tingling	Accordance	
The structural design shall meet the following requirements:		
It shall not be easy to cause structural damage, and the design, composition and installation of components shall not pose any danger to users	Accordance	
The design of head harness shall be elastic material or adjustable, easy to wear and remove, and it shall be able to firmly fix the facepiece on the face, without obvious compression or tenderness	Accordance	
It shall not affect visual field obviously	Accordance	
Protection shall be provided on the front of the exhalation valve. The exhalation valve protection device may be a specially designed component or may be provided by means of other components on the mask	Accordance	
The structure of the disposable facepiece shall be able to ensure the fit with the face, and should not appear deformation in normal use	Accordance	







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Test Result	Requirements	Judgement
1. Head harness <u>GB 2626-2019 Section 6.11</u>		
For disposable facepiece, tension 10N for 10s		
Before pretreatment	No slippage, fracture shall occur	Pass
No slippage or fracture		
After pretreatment		
No slippage or fracture		
2. Filtration Efficiency <u>GB 2626-2019 Section 6.3</u>		
Air flow:85L/min,Aerosol: NaCl		
Unit: <%>		
Before pretreatment	(KN95) ≥ 95.0	Pass
sample 1#	99.1	
sample 2#	98.7	
sample 3#	99.6	
sample 4#	99.1	
sample 5#	99.2	
sample 6#	99.0	
sample 7#	99.1	
sample 8#	99.2	
sample 9#	99.7	
sample 10#	99.7	
sample 11#	99.0	
sample 12#	99.1	
sample 13#	98.9	
sample 14#	99.9	
sample 15#	98.3	
After pretreatment		
sample 1#	99.2	
sample 2#	99.6	
sample 3#	99.4	
sample 4#	99.2	
sample 5#	99.2	
Minimum value	98.3	
3. Exhalation Resistance <u>GB 2626-2019 Section 6.6</u>		
Air flow:85L/min		
Unit: <Pa>		
B Before pretreatment	≤ 150	Pass
sample 1#	70.3	
sample 2#	67.5	
After pretreatment		
sample 1#	78.2	
sample 2#	74.7	
Maximum value	78.2	



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Test Result	Requirements	Judgement
4. Inhalation Resistance <u>GB 2626-2019 Section 6.5</u>		
Air flow:85L/min Unit: <Pa>		
Before pretreatment	≤ 250	Pass
sample 1# 63.1		
sample 2# 73.1		
After pretreatment		
sample 1# 66.8		
sample 2# 76.2		
Maximum value 76.2		
5. Appearance Inspection <u>GB 2626-2019 Section 6.1 and 6.2</u>		
Result	Accordance	The surface should not be damaged, deformation and other obvious defects.
	Accordance	Component materials and structures shall be able to withstand normal operating conditions and possible temperature, humidity and mechanical shocks.
	Accordance	After temperature and humidity pretreatment, components should not fall off, damage and deformation.
6. Inward Leakage <u>GB 2626-2019 Section 6.4</u>		
50 out of the 50 individual exercise results for total inward leakage are not greater than 11%.		KN95: At least 46 out of the 50 individual exercise results (i.e. 10subjects x 5 exercise) for total inward leakage shall be not greater than 11%.
10 out of 10 individual wearer arithmetic means for the total inward leakage are not greater than 8%.		KN95: At least 8 out of 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 8%.
Remark: Detailed test data on appendix page.		





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Test Result		Requirements	Judgement
7. Flammability <u>GB 2626-2019 Section 6.15</u>			
Unit: <s>			
After flame time		After flame times≤ 5	Pass
Before pretreatment			
Sample 1#	0		
Sample 2#	0		
After pretreatment			
Sample 1#	0		
Sample 2#	0		
8. Exhalation Valve Device <u>GB 2626-2019 Section 6.8</u>			
For replaceable facepiece, tension 50N for 10s.			
sample 1#~sample 3#		No slippage, fracture or deformation shall occur	Pass
No slippage, fracture and deformation			
9. Breathing Valve Tightness <u>GB 2626-2019 Section 6.7</u>			
Unit: <mL/min>			
Before pretreatment		(Two exhalation valves)	Pass
Sample 1#	2.9	Leakage air flow rates≤ 15	
Sample 2#	3.6		
After pretreatment			
Sample 1#	5.2		
Sample 2#	3.2		
Maximum value	5.2		
10. Visual field <u>GB 2890-2009 section 6.8</u>			
Below visual field	69.4°	Below visual field	Pass
		(Half-mask) ≥ 35°	
Binocular visual field	95.4%	Binocular visual field	
		(Half mask) ≥ 65%	
11. Dead Space <u>GB 2626-2019 Section 6.9</u>			
Unit: <%>			
Volume fraction of carbon dioxide 0.6		Volume fraction of carbon dioxide ≤ 1	Pass





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12. Functional Performance GB 2626-2019 Section 6.16

Respirator Information		
Model and specification		Model: L Specification: 22cmX16.5cm
Brand		Airinum
Evaluation Report		
Before testing functional performance, the respirator has completed all laboratory performance tests and is confirmed to be harmless to human subjects.		
Performance category		Evaluation Content
Categories (A) directly related to security	Respiration	Good patency, comfortable air supply, large ventilation
	Vision	No obvious effect on visual field
	Security	The head harness is strong
	Communication Capability	Clear pronunciation, clear hearing, the instructions can be clearly heard, and according to the instructions quickly make the correct response
	Control Device	High intuitive adjustment, easy to understand, easy to operate, low possibility of misoperation or accidental operation
	Activity	High freedom degree of head movement
Categories (B) not directly related to security	Convenience of Use	Convenient to wear, convenient to take off
	Comfort Degree	Facial comfort, moderate thermal comfort, feel comfortable after use
	Maintenance and storage	Easy to maintain and store
	Instruction for use	Usage method is easy to understand, maintenance and storage is easy to understand
	Total evaluation	Acceptable level is moderate

Remark: The test report ZFLJ2634778A is cancelled and replaced by ZFLJ2634778C .





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Appendix Page:

Inward Leakage (Disposable mask)		Individual exercise 1 TIL (%)	Individual exercise 2 TIL (%)	Individual exercise 3 TIL (%)	Individual exercise 4 TIL (%)	Individual exercise 5 TIL (%)	Mean individual wearer TIL (%)
The sample before pretreatment	Individual wearer 1	1.8	1.8	1.4	1.5	2.0	1.7
	Individual wearer 2	2.6	2.3	1.2	1.9	1.0	1.8
	Individual wearer 3	6.3	5.7	6.0	5.1	4.8	5.6
	Individual wearer 4	5.2	5.2	5.4	5.3	5.4	5.3
	Individual wearer 5	5.6	5.8	5.1	5.3	5.3	5.4
The sample after pretreatment	Individual wearer 6	3.0	4.8	3.0	4.1	4.2	3.8
	Individual wearer 7	2.3	2.6	2.8	2.9	2.9	2.7
	Individual wearer 8	1.9	1.0	1.0	1.0	1.6	1.3
	Individual wearer 9	1.3	2.0	2.1	2.5	1.6	1.9
	Individual wearer 10	1.8	1.5	2.1	2.0	1.2	1.7





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Original Sample



===== End of Report =====

