



中国认可
国际互认
检测
TESTING
CNAS L1842



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: 1140851377
Report No: ZFLJ2658157A	Page 1 of 7

Applicant Information

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

Sample Information

Sample Description : A、B: Lite Air Mask
Sample Quantity : A: 12 pieces B: 50 pieces
Colour : A: Pink B: Black
Brand : Airinum
Size specification : M

- Sample Receiving/Testing date : 2020-11-15
- Report Date : 2020-11-21
- The original sample is stuck on the last paper.

Test Performed

Judgement according to:
GB/T 32610-2016 Technical Specification of daily protective mask
- 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





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CONCLUSION

Test Item	Judgement
Sample A	
Tensile Strength of the mask belt and the connection between the mask belt and the mask body	Pass
pH Value	Pass
Formaldehyde Content	Pass
Azo Colourants	Pass
Basic Requirement	Pass
Sample B	
Filtration Efficiency (oil medium)	Pass
Filtration Efficiency (salt medium)	Pass
Protective Effect	Pass





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--- Test Result ---

Test Result

Requirements

Judgement

Sample A

1. Tensile Strength of the mask belt and the connection between the mask belt and the mask body

GB/T 32610-2016 Section 6.9

Unit: <N>

Test Result	Requirements	Judgement
Result	59	≥ 20 Pass

2. pH Value GB/T 7573-2009

Using KCl solution as the extracting solution.

Test Result	Requirements	Judgement
Mask inner layer	6.4	4.0~8.5 Pass
Filter inner layer	6.6	

3. Formaldehyde Content GB/T 2912.1-2009

Water extraction method, lower limit of quantitation: 20mg/kg

Unit: <mg/kg>

Test Result	Requirements	Judgement
Result	Not Detectable	≤ 20 Pass

Remark: Not Detectable, Less than 20 mg/kg

4. Azo Colourants GB/T 17592-2011

Use GC/MSD method, limit of detection : 5mg/kg

Unit: <mg/kg>

Test Result	Requirements	Judgement
Result	Not Detectable	Banned (≤ 20) Pass

Remark: 1) Not Detectable, Less than the Limit of detection.

2) Banned arylamines substances are listed in Annex.





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	Test Result	Requirements	Judgement
5. Basic Requirement	<u>GB/T 32610-2016 Section 5.1</u>		
Result	Accordance	The mask should be able to cover the mouth and nose securely.	Pass
	Accordance	Mask raw materials should not be reworked materials, contain highly toxic or potentially carcinogenic substances and materials known to cause skin irritation or other adverse reactions, residues of other substances that are restricted in use should meet the relevant requirement, no odor.	
	Accordance	The mask should not have a palpable sharp angle or sharp edge and should not pose a hazard to the wearer.	
	Accordance	Masks should be easy to wear and remove, no obvious constriction or tenderness in the wearing process, the impact on the head movement is small.	
	Sample B		

1. Filtration Efficiency (oil medium) GB/T 32610-2016 Appendix A

Air flow: 85L/min, Aerosol : Paraffin oil

Unit: <%>

Before pretreatment	(Level III) ≥ 80	Pass
sample 1#	93.2	
sample 2#	93.8	
sample 3#	94.0	
sample 4#	93.5	
sample 5#	92.7	
After pretreatment		
sample 1#	91.3	
sample 2#	92.0	
sample 3#	91.7	
Minimum	91.3	





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Test Result	Requirements	Judgement
2. Filtration Efficiency (salt medium)	<u>GB/T 32610-2016 Appendix A</u>	
Air flow: 85L/min, Aerosol: NaCl Unit: <%>		
Before pretreatment	(Level III) ≥ 90	Pass
sample 1# 99.5		
sample 2# 99.4		
sample 3# 99.3		
sample 4# 99.5		
sample 5# 99.6		
After pretreatment		
sample 1# 99.2		
sample 2# 99.0		
sample 3# 99.0		
Minimum 99.0		
3. Protective Effect	<u>GB/T 32610-2016 Appendix B</u>	
Respiratory rate: 20 times / min, Respiratory flow: 30L / min, Aerosol: NaCl、Corn oil Unit: <%>		
Minimum 86.4	(Level B) ≥ 85	Pass
(Add head buckle test.)		





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Appendix:

No.	CAS No.	Forbidden Arylamine
1	92-67-1	4-aminobiphenyl
2	92-87-5	benzidine
3	95-69-2	4-chloro-o-toluidine
4	91-59-8	2-naphthylamine
5	97-56-3	o-aminoazotoluene
6	99-55-8	5-nitro-o-toluidine
7	106-47-8	p-chloroaniline
8	615-05-4	2,4-diaminoanisole
9	101-77-9	4,4'-diaminobiphenylmethane
10	91-94-1	3,3'-dichlorobenzidine
11	119-90-4	3,3'-dimethoxybenzidine
12	119-93-7	3,3'-dimethylbenzidine
13	838-88-0	3,3'-dimethyl-4,4'-diaminobiphenylmethane
14	120-71-8	p-cresidine
15	101-14-4	4,4'-methylene-bis-(2-chloroaniline)
16	101-80-4	4,4'-oxydianiline
17	139-65-1	4,4'-thiodianiline
18	95-53-4	o-toluidine
19	95-80-7	2,4-toluylenediamine
20	137-17-7	2,4,5-trimethylaniline
21	90-04-0	o-anisidine
22	60-09-3	4-aminoazobenzene
23	95-68-1	2,4-xylidine
24	87-62-7	2,6-xylidine





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Original Sample

A



B



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

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