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检测
TESTING
CNAS L7901

检验检测报告

TEST REPORT

STFWT202018898

Product Name	AIRPOP KIDS Mask
Trust Unit	Aetheris Technology（Shanghai）Co.,Ltd.
Manufacturer	Aetheris Technology（Shanghai）Co.,Ltd.
Test Category	Entrusted Test

江苏省特种安全防护产品质量监督检验中心
JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS

Test Report

STFWT202018898

Product Name	AIRPOP KIDS Mask	Specification Type	free size
		Trademark	AIRPOP
Trust Unit	Aetheris Technology（Shanghai）Co.,Ltd.	Tel	15899763237
Manufacturer	Aetheris Technology（Shanghai）Co.,Ltd.	Sample Grade	KN95
Sample Quantity	50 pcs	Sample Receiving Date	2020-09-07
Test Category	Entrusted Test	Serial Number	——
Samples Conditions	Meet the testing requirements		
Document and Decide Accordance	GB 2626-2019《respirator protection products Self-breath Particles Filtration Respirator》		
Test Conclusion	The samples were tested, the items tested meet the requirements of GB 2626-2019standard for KN95 level. SignatuimDate: 2020-11-24		
Remarks	The test conclusion of this report is only for the items inspected and does not mean that the uninspected items or functions meet the requirements. This report is responsible for samples only.		

Approver 钱琴 Examiner 吴高高 Majortester 蔡燕文

Testing Results

Serial	Test Items	Unit	Requirement	Results	Individual Judgment
1	The basic requirements (structure)	——	1) Structural damage shall not occur easily, and the design, composition and installation of components shall not pose any danger to users; 2) The headband shall be elastic or adjustable, easy to wear and remove, and the face mask shall be firmly fixed on the face, and no obvious compression or tenderness shall appear during wearing. The headband of replaceable facepiece and full facepiece shall be replaceable; 3) If masks of the same size and style are worn in different ways, they should be tested for different products; 4) The visual field should not be significantly affected 5) During wearing, the lens of the full facepiece should not be fogged or otherwise affect the vision. 6) The respirator with replaceable filter elements, inhalation valve, exhalation valve and headband shall be designed to be easily replaced, and the wearer can check the air tightness of the mask and face at any time and conveniently, and check the air tightness of wearing; 7) The breathing hose shall not restrict the head movement or the movement of the wearer, shall not affect the tightness of the mask, and shall not restrict or block the airflow; 8) Protection shall be provided on the front of the exhalation valve. The exhalation valveprotection device may be a specially designed part or play a protective role with the help of other parts on the mask: 9) The structure of the disposable facepiece should be able to ensure the close fit with the face, and should not be deformed in normal use; 10) Parts of replaceable facepiece (filter elements) should be cleanable;	1) It is not easy to cause structural damage, and the design, composition and installation of components do not pose any danger to users 2) The headband is designed as elastic material, adjustable, easy to wear and remove, and can firmly fix the mask on the face without obvious compression or tenderness during wearing: 3) The field of vision is not significantly affected; 4) The structure of the disposable facepiece can ensure the close contact with the face, and it will not be deformed in normal use;	Qualified

Testing Results

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Serial	Test Items	Unit	Requirement	Results				Individual Judgment
2	Appearance inspection	——	The surface of the sample shall be free from damage, deformation and other obvious defects. The material and structure of the components shall be able to withstand normal service conditions and possible temperature, humidity and mechanical impact. After temperature and humidity pretreatment and mechanical strength pretreatment	The surface of the sample is free from damage, deformation and other obvious defects. The material and structure of the components can withstand normal service conditions and possible temperature, humidity and mechanical impact. After temperature and humidity				Qualified
3	Breath Resistance	Pa	disposable facepiece inhalation resistance :≤210 exhalation resistance:≤210	Sample No			MV	Qualified
				Total inspiratory resistance	Unpretreated	1#	98.7	
						2#	99.1	
					pretreated	5#	97.9	
						6#	98.4	
				Total exhalation resistance	Unpretreated	3#	75.6	
						4#	74.9	
					pretreated	7#	75.1	
						8#	74.7	
4	Headband	——	Each headband, buckle and other adjusting parts of the mask should not slip or break when subjected to a 10N tension for 10s.	Unpretreated 1# Each headband, buckle and other adjusting parts of themask did not slip or break after being subjected to 10N of tension for 10s. After pretreatment: 5# Each headband, buckle and other adjusting parts of the mask did not slip or break after being subjected to 10N tension for 10s.				Qualified
5	Carbon dioxide content of the inhalation air	——	CO_2 volume fraction should be no greater than 1%.	0.4%				Qualified
6	Field of vision	——	lower field of vision≥35°	63°				Qualified
			binocular field of vision≥65%	72%				

Testing Results

<table>
<tr><th>Serial</th><th>Test Items</th><th>Unit</th><th>Requirement</th><th colspan="6">Results</th><th>Individual Judgment</th></tr>
<tr><td rowspan="25">7</td><td rowspan="25">Filter efficiency /%
(NaCl particulate matter)</td><td rowspan="25">——</td><td rowspan="25">KN90：≥90.0
KN95：≥95.0
KN100：≥99.97</td><td colspan="2">Sample No</td><td colspan="3">MV</td><td rowspan="25">Qualified</td></tr>
<tr><td rowspan="14">Unpretreated</td><td>9#</td><td colspan="3">98.4</td></tr>
<tr><td>10#</td><td colspan="3">98.5</td></tr>
<tr><td>11#</td><td colspan="3">98.6</td></tr>
<tr><td>12#</td><td colspan="3">98.5</td></tr>
<tr><td>13#</td><td colspan="3">98.4</td></tr>
<tr><td>14#</td><td colspan="3">98.5</td></tr>
<tr><td>15#</td><td colspan="3">98.6</td></tr>
<tr><td>16#</td><td colspan="3">98.5</td></tr>
<tr><td>17#</td><td colspan="3">98.4</td></tr>
<tr><td>18#</td><td colspan="3">98.6</td></tr>
<tr><td>19#</td><td colspan="3">98.6</td></tr>
<tr><td>20#</td><td colspan="3">98.4</td></tr>
<tr><td>21#</td><td colspan="3">98.5</td></tr>
<tr><td>22#</td><td colspan="3">98.4</td></tr>
<tr><td>23#</td><td colspan="3">98.5</td></tr>
<tr><td rowspan="5">Temperature and humidity treatment</td><td>24#</td><td colspan="3">98.3</td></tr>
<tr><td>25#</td><td colspan="3">98.2</td></tr>
<tr><td>26#</td><td colspan="3">98.4</td></tr>
<tr><td>27#</td><td colspan="3">98.3</td></tr>
<tr><td>28#</td><td colspan="3">98.2</td></tr>
<tr><td>8</td><td>Practical performance / score</td><td>——</td><td>According to the method of 6.16, under the condition of simulated use, the subjects provide subjective evaluation for the performance that is difficult to evaluate by other detection methods, such as those specified in 5.1b) and 5.11</td><td>Experimenter</td><td>E2</td><td>E3</td><td>E9</td><td>E12</td><td>Qualified</td></tr>
<tr><td></td><td></td><td></td><td></td><td>A</td><td>3</td><td>3</td><td>3</td><td>3</td><td></td></tr>
<tr><td></td><td></td><td></td><td></td><td>B</td><td>3</td><td>3</td><td>3</td><td>3</td><td></td></tr>
<tr><td></td><td>Flammability</td><td>——</td><td>The parts exposed to the flame should not burn after being removed from the flame; if they do, the renewal time should not exceed 5s.</td><td colspan="6">Unpretreated
1#, 2#The parts of the specimen exposed to the flame did not burn after being removed from the flame.
After pretreatment:
3#, 4#The parts of the specimen exposed to the flame did not burn after being removed from the flame.</td><td>Qualified</td></tr>
</table>

Testing Results

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Serial	Test Items	Unit	Requirement	Results								Individual Judgment
				No.		TIL						
						static	Head (side/ side)	Head (up /down)	Talk	static	Mean	
10	Leakage/% (Total Inward Leakage of Disposable Mask)	——	Based on Til of each action (i. e. 10 persons and 5 actions) , TIL of at least 46 actions in 50 actions KN90 <13 KN95 <11 KN100 <5	Unpre treated	31#	6.4	6.8	7.2	6.7	6.0	6.6	Qualified
					32#	6.1	6.9	7.5	7.5	5.4	6.7	
					33#	5.4	5.5	5.6	5.1	4.7	5.3	
					34#	6.3	11.7	12.4	12.3	6.2	9.8	
					35#	6.6	6.9	7.3	6.5	6.3	6.7	
			Total Inward Leakage for at least 8 out of 10 subjects when evaluated on a total person basis KN90 <10 KN95 <8 KN100 <2	pretre ated	36#	5.9	6.4	7.0	6.9	5.1	6.3	
					37#	6.9	7.3	7.7	6.8	6.3	7.0	
					38#	6.5	7.0	7.5	7.3	5.9	6.8	
					39#	6.4	7.1	7.3	6.6	5.7	6.6	
					40#	6.5	7.2	7.8	7.2	5.8	6.9	
				47 out of the 50 individual exercise results ≤ 11 9 individual wearer arithmetic means≤ 8								
remarks	The subjective evaluation of practical performance adopts 5-point scoring method; 5 points indicate that they have the best feeling for an evaluation project, 3 points indicate moderate feeling, and 1 point indicates unacceptable feeling E2: Rapid Walking Test E3: Flexion and extension walking test E9: Pipeline experiment E12: Filling Test											

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地址：江苏省泰州市高港区临港经济园临港大道 166 号

Add: Lingang Road 166, Lingang Economic Park , Gaogang, Taizhou.Jiangsu

电话（ Tel ）: 0523–86989959

0523–86989939

邮编（Post）: 225300

网址（Web）: www.jstfzx.com

邮箱（E–mail）: 1735889887@qq.com

监督电话 (Complain Tel)：0523–86989901