



中国认可
国际互认
检测
TESTING
CNAS L5772

TEST REPORT



Commissioned by: Sanctuary Systems LLC

Factory: Sanctuary Systems LLC

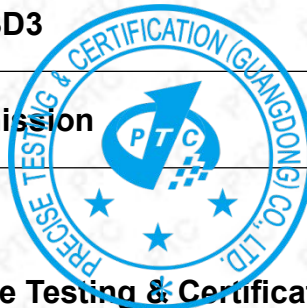
Name of Sample: Black Mask

Type, Specification: KN953D3

Testing Purpose: Commission

Testing Lab: Precise Testing & Certification
(Guangdong) Co., Ltd. (PTC)

Address: Building 1, No. 6, Tongxin Road,
Dongcheng Street, Dongguan, Guangdong





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Name of sample	Black Mask	Type,Specification	KN953D3
		Trade Mark	Breatheze
Grade of sample	/	Sample No.	/
Testing purpose	Commission	Batch No.	/
Quantity of sample	/	Package	Sealed
Sample Received Date	Mar. 15, 2023	Completed Date	Mar. 23, 2023
Testing Environment	As requirement of testing standard		
Commissioned by& Address	Sanctuary Systems LLC 701 S Wilson St, Box# 692, Fremont, NC USA		
Name & Address of Factory	Sanctuary Systems LLC 701 S Wilson St, Box# 692, Fremont, NC USA		
Testing Reference	GB 2626-2019 Respiratory protection - Non-powered air-purifying particle respirator.		
Testing Item	General requirements, Visual inspection, Filter efficiency, Inhalation resistance, Exhalation resistance, Dead Space, Vision, Headband, Strength of the connection, Flammability, Practical performance, Leakage property, Air tightness		
Remark	Test results are attached as below		
Note	None		
Prepared by: Anne	Checked by:Crystal	Approved by: Miya	
Anne	Crystal	Miya	



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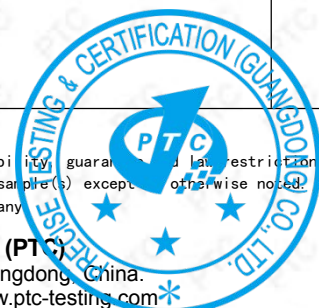
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No.	Test Item/unit	Test Method	Requirement	Test Result	Conclusion
1	General requirements ☆	GB 2626-2019 Clause 6.1 & 6.16	<p>Check in accordance with 6.1 and evaluate in 6.16. The material and structural design of the respirator shall meet the following requirements:</p> <p>a) The material shall meet the following requirements:</p> <p>1) Materials that are in direct contact with the face shall be harmless to the skin;</p> <p>2) The filter material shall be harmless to the human body;</p> <p>3) The material used shall have sufficient strength; in normal use, it shall not be damaged and deformed that affects the use effect;</p> <p>4) No obvious tenderness or tingling sensation when wearing it.</p> <p>b) The structural design shall meet the following requirements:</p> <p>1) It shall not be easy to cause structural damage; the design, composition, installation of components shall not pose any danger to the user;</p> <p>2) The design of the head harness shall be elastic material or adjustable,</p>	Comply	Pass

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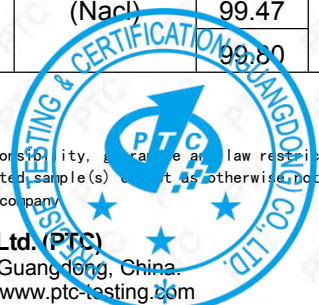
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2	Visual inspection	GB 2626-2019 Clause 6.1 & 6.2	The surface of the sample shall neither be damaged, deformed, nor have other obvious defects. The material and structure of the component shall be able to withstand normal use conditions and the temperature, humidity and mechanical shock that may be encountered. After the temperature and humidity pretreatment and mechanical strength pretreatment according to the method of 6.2, the components shall not fall off, be damaged or deformed.	Comply	Pass
3	Filter efficiency (%)	GB 2626-2019 Clause 6.3	KN90: ≥90.0% KN95: ≥95.0% KN100: ≥99.97%	<p>As received (NaCl)</p> <p>Temperature & humidity Treatment (NaCl)</p>	<p>99.65</p> <p>99.83</p> <p>99.48</p> <p>99.74</p> <p>99.31</p> <p>99.40</p> <p>99.83</p> <p>99.48</p> <p>97.51</p> <p>97.59</p> <p>99.83</p> <p>98.89</p> <p>99.82</p> <p>99.83</p> <p>98.51</p> <p>99.93</p> <p>98.63</p> <p>99.60</p> <p>99.47</p> <p>99.80</p> <p>KN95 Pass</p>

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4	Inhalation resistance (Pa)	GB 2626-2019 Clause 6.5	See Annex 1	As received	127.61	KN95 Pass
					131.82	
				Treatment	128.61	
					135.44	
5	Exhalation resistance (Pa)	GB 2626-2019 Clause 6.6	See Annex 1	As received	116.50	KN95 Pass
					121.74	
				Treatment	116.82	
					126.83	
6	Dead Space (%)	GB 2626-2019 Clause 6.9	≤ 1%	0.08%		Pass
7	Vision	GB 2890-2009 Clause 6.8	Below view field :≥35°	74°		Pass
			Double-eye view field:≥65%	86%		
8	Headband [*]	GB 2626-2019 Clause 6.11	Disposable facepiece: 10Ncontinuous10s No slippage or breakage	As received	Comply	Pass
				Treatment	Comply	
9	Strength of the connection	GB 2626-2019 Clause 6.12	Each head harness, buckle and other adjustment parts of the respirator shall not slip or break when it is subjected to the tensile force: Disposable facepiece: 10 N for 10 s Replaceable half facepiece: 50 N for 10 s	Not Applicable		Not Applicable



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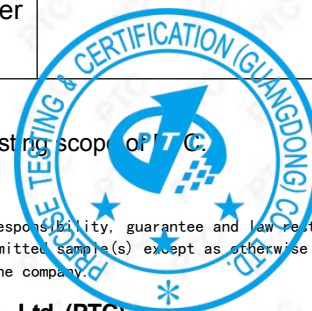
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10	Flammability	GB 2626-2019 Clause 6.15	<p>If the product is not flame-retardant, there should be a textual description of "This product is not suitable for the open flame operation (such as welding, casting, etc)"</p> <p>If the product is not flame-retardant, it should be tested according to the requirements of flammability</p> <p>After removed from the flame, the continued burning time of the components exposed to the flame should be no more than 5 seconds</p>	As received	No Burn	Pass
					No Burn	
				Treatment	No Burn	
					No Burn	
11	Practical performance [☆]	GB 2626-2019 Clause 6.16	<p>Perform test in accordance with the method of 6.16. Under the conditions of simulated use, the performance which is hard to be evaluated by the use of other testing methods, such as the performance specified in 5.1b) and 5.11, the subject will provide subjective evaluation.</p> <p>If the respirator fails the test, the laboratory shall describe the test method in detail, so that other laboratories can repeat the test process.</p>	Comply		Pass
12	Leakage property (%)	GB 2626-2019 Clause 6.4	See annex 2	See annex 2-A		KN95 Pass
13	Air tightness	GB 2626-2019 Clause 6.14	Under the specified testing conditions, the pressure change in each full facepiece within 60 s shall not be greater than 100 Pa.	Not Applicable		Not Applicable

Note: ☆=The standard for this test item is not covered by CNAS accredited testing scope of PTC.

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Annex 1: limits of Inhalation/Exhalation Resistance

Type of facepiece	KN90 and KP90	KN95 and KP95	KN100 and KP100	Exhalation resistance / Pa
Disposable facepiece, without exhalation valve	≤170	≤210	≤250	Same as inhalation resistance
Disposable facepiece, with exhalation valve	≤210	≤250	≤300	≤150
Replaceable half facepiece and full facepiece including filter element	≤250	≤300	≤350	

Annex 2: limits of Leakage

TIL of disposable facepieces	Grade of filter material	When using the TIL of each action (i.e. 10 people x 5 actions) as the basis for evaluation, the TIL of at least 46 of the 50 actions	When using the overall TIL as the basis for evaluation, the overall TIL of at least 8 persons of the 10 persons under test
	KN90 or KP90	< 13%	< 10%
	KN95 or KP95	< 11%	< 8%
	KN100 or KP100	< 5%	< 2%
IL of replaceable half facepiece	Perform test in accordance with the method of 6.4. When using the IL of each action (i.e. 10 people x 5 actions) as the basis for evaluation, the IL of at least 46 of the 50 shall be less than 5%. When using the overall IL of person as the basis for evaluation, the overall IL of at least 8 persons of the 10 persons under test shall be less than 2%.		
IL of full facepiece	Perform test in accordance with the method of 6.4. When the IL of each action is used as the basis for evaluation (i.e. 10 persons x 5 actions), the IL of each action shall be less than 0.05%.		

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Annex 2-A: Inward Leakage Test Data

Subject	Sample No.	Condition	Walk (%)	Head left/right (%)	Head up/down (%)	Talk (%)	Walk (%)	Mean (%)
Lv	1	A.R	5.8	5.6	5.7	5.6	5.6	5.7
Li	2	A.R	6.1	6.3	6.3	6.1	6.3	6.2
Zhong	3	A.R	5.9	6.3	5.8	5.8	5.9	5.9
Xu	4	A.R	7.1	7.3	7.3	7.3	7.4	7.3
Ma	5	A.R	6.9	6.8	6.7	6.7	6.7	6.8
Chen	6	T.C	5.9	5.8	5.4	5.3	5.3	5.5
Chen	7	T.C	6.3	6.2	6.2	6.3	6.3	6.3
Zhuo	8	T.C	6.4	6.3	6.4	6.4	6.3	6.4
Chen	9	T.C	7.0	7.2	7.2	7.1	7.2	7.1
Zhang	10	T.C	6.5	5.6	5.7	5.7	5.5	5.6

Annex 2-B: Facial dimension

Subject	Face Length	Face Width	Face Depth	Mouth Width
Lv	113	139	104	53
Li	120	135	112	55
Zhong	108	135	106	56
Xu	120	150	120	70
Ma	130	170	130	80
Chen	110	160	90	40
Chen	115	145	110	50
Zhuo	103	146	100	50
Chen	110	145	95	40
Zhang	144	141	101	54

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Photo(s) of sample:



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End of Report

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