



TEST REPORT



Commissioned by:

Sanctuary Systems LLC

Factory:

Sanctuary Systems LLC

Name of Sample:

Non-Medical Disposable Respirator K

Type, Specification: KN95K1

Testing Purpose:

Testing Lab:

Address:

Commission CERTIFICATION CO



(Guangdong) Co., Ltd. (FTC) Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong



Report No.: PTC22111100801C-EN01

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Trade Mark Sample No. Batch No.	Breatheze /
9 9 9 9 9	
Batch No.	1
	1
Package	Sealed
Completed Date	Dec. 06, 2022
ig standard	6 6 6 6
C # 692, Fremont, NC USA	
C ≰ 692, Fremont, NC USA	4° 4° 4° 4
ory protection - Non-powered a	ir-purifying
ead Space, Vision, neadband, St	rength of the connection
d as be w	
	6 6 6 6
ay Chan Approved	d by: Miya
	ig standard 692, Fremont, NC USA 692, Fremont, NC USA ory protection - Non-powered at fisual inspection,Filter efficiency ead Space,Vision Headband,St erformance,Leakage property A d as below

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		Requirement	Test Result	on
		Check in accordance with 6.1 and evaluate in 6.16. The material and structural design of the respirator shall meet the following requirements: a) The material shall meet the following requirements: 1) Materials that are in direct contact with the face shall be harmless to the skin;	Comply	Pass
General requirements [☆]	GB 2626-2019 Clause 6.1 & 6.16	 2) The filter material shall be harmless to the human body; 3) The material used shall have sufficient strength; in normal use, it shall not be damaged and deformed that affects the use effect; 4) No obvious tenderness or tingling sensation when wearing it. 		
		meet the following requirements: 1) It shall not be easy to cause structural damage; the design, composition, installation of components shall not pose any danger to the user; 2) The design of the head		Pass
		General requirements [☆] Clause 6.1 &	General requirements*GB 2626-2019 Clause 6.1 & 6.16GB 2626-2019 Clause 6.1 & 6.16The material shall meet the following requirements: 1) Materials that are in direct contact with the face shall be harmless to the skin; 2) The filter material shall be harmless to the human body; 3) The material used shall have sufficient strength; in normal use, it shall not be damaged and deformed that affects the use effect; 4) No obvious tenderness or tingling sensation when wearing it. b) The structural design shall meet the following requirements: 1) It shall not be easy to cause structural damage; the design, composition, installation of composition, installation of 	General requirements* GB 2626-2019 Comply General requirements* 0.16 10 Material shall meet the following requirements: Comply 3) The material shall meet the following requirements: 1) Materials that are in direct contact with the face shall be harmless to the skin; 2) The filter material shall be harmless to the human body; 3) The material used shall have sufficient strength; in normal use, it shall not be damaged and deformed that affects the use effect; 4) No obvious tenderness or tingling sensation when wearing it. b) The structural design shall meet the following requirements: 1) It shall not be easy to cause structural damage; the design, composition, installation of components shall not pose any danger to the user; 2) The design of the head harmess shall be elastic

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for easy wearing and removal. It shall be able to firmly fit the facepiece on the face; there shall be no obvious compression or tenderness when wearing. The head harness of replaceable half facepiece and full facepiece shall be designed to be replaceable; 3) If the facepieces of the same size and the same style have different wearing methods, they shall be tested as different products; Note 1: Different wearing methods of the same style facepiece will affect the tightness of the facepiece. 4) It shall not significantly affect the visual field; 5) When wearing, the lenses of the full facepiece shall not affect the vision, such as fogging; 6) Respirators which use replaceable filter elements, inhalation valves, exhalation valves, head harness shall be designed for easy replacement; meanwhile it FICATION allows the wearer to check the airtightness of the facepiece and face at any time and conveniently, to make user 🔐

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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	Comply	Pass
5	10 10 v		10) The parts of the replaceable facepiece (except the filter element) shall be washable.		8° 8° 8° 8°
20	660	668	meanwhile it shall not deform during normal use;		5 ⁰ 8 ⁰
30	10 10	0,0,0	disposable facepiece shall ensure close fit with the face;		10 20
1	20 20	0,0,0	components on the facepiece; 9) The structure of the		20 20
	66		valve protection device can bea dedicated component, or itcan be protected by other		8 8 C
100	10 10 x	P 40 40	exhalation valve shall be protected. The exhalation		66
10	40 40 a	6 6 6	or block the airflow; 8) The front side of the		6 6
6	50 50 0	0 0 0	not affect the tightness of the facepiece; it shall not restrict		88
1	10 10	0 8 8	not restrict the movement of the head or the wearer; it shall		10 20
	20 20	0.0.0	face-seal check method. 7) The breathing hose shall		10 10
			face-seal check; Note 2: See Appendix G of GB/T 18664-2002 for user		20 20

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6 6 6 6 6 5	10 10 10 10 10 10 10 10 10 10 10 10 10 1	8 6 6 8 9 9 8 9 9	pretreatment and mechanical strength pretreatment according to the method of 6.2, the components shall not fall off, be damaged or deformed.		10 10 . 10 10 .	2° 2°
	100.00			0.0.0	36 36	
	100.00	N 8 8	N & & & & &	1 4 4 V	8 8 V	
	100.00	N. 9. 9	N N N N N N	P 29 29 1	8 8	
	100.00				0.0	
	100.00	N95: ≥95.0%	6 6 6 6 6 6	1 4 4 4 1	8° 8° 1	
	99.81		S & S & S &	0,0,0	8 20	
KN95 Pass	100.00			a a	36 36	
	99.71		Filter efficiency (%) GB 2626-2019 Clause 6.3 KN90: ≥90.0% KN95: ≥95.0% KN100: ≥99.97%	8 8		
	98.32					
	98.41			2		
	96.40				3	
	99.24			P 20 20 1	S 20	
	99.43		a. a. a. a. a.	0.0.0	6.6	
	99.33	6 6		S 8 8	8.8.8	
	99.52	S & 8	N N N N N N	P 20 20 .	8 8	
	100.00	0.000	0.00000	0 0 0	6 6	
	100.00	Temperature		1 1 1 1 1 1	8.8.1	
	99.90	& humidity Treatment	N N N N N N	P 62 32 1	8 8.	
	100.00	(Nacl)	0. 0. 0. 0. 0.	0.00.00	16 36	
	100.00	1 E E				
8 6	198.64	Annaching	888888	688	8 8	50
KN9	198.32	As received		GB 2626-2019	Inhalation	
Pass	182.64	Treatment	See Annex 1	Clause 6.5	resistance (Pa)	4
	185.51	Treatment	No. Contraction of the second se	S. 9. 9	S. S.	

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	8 8 6	0 80 80	N N N N N N	As received	180.45	8 8	
	Exhalation	GB 2626-2019	See Annex 1	Asteceiveu	187.65	KN95	
5	resistance (Pa)	Clause 6.6	See Annex 1	Treatment	171.80	Pass	
de.	883	S. S. 9	8 8 8 8 8 8	Treatment	165.19	8. 8	
6	Dead Space (%)	GB 2626-2019 Clause 6.9	≤ 1%	0.479	%	Pass	
-	Vision	GB 2890-2009	Below view field :≥35°	48°	0, 20	Deee	
7	Vision	Clause 6.8	Double-eye view field:≥65%	64%	5	Pass	
8	Headband☆	GB 2626-2019	Disposable facepiece: 10Ncontinuous10s No	As received	Comply	Pass	
0	Headband	Clause 6.11	slippage or breakage	Treatment	Comply	Fass	
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	
1 2 m	10 10 1 10 10 1		If the prodouct is not flame-retardant,there should be a texctual descriiption of" This prodouct is not suitable for the open flam operation(such as	As received	No Burn No		
10	Flammability	GB 2626-2019 Clause 6.15	welding,casting,etc) If the prodouct is not flame-retardant, it should be tested according to the requirements of flammability After removed from the flame,the continued burning time of the components exposed to the flame should	Treatment	Burn No Burn No Burn	Pass	

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11	Practical performance [☆]	GB 2626-2019 Clause 6.16	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. If the respirator fails the test, the laboratory shall describe the test method in detail, so that other laboratories can repeat the test process.	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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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	8° 8° 8°
Replaceable half facepiece and full facepiece including filter element	≤250	≤300	≤350	≤150

Annex 1: limits of Inhalation/Exhalation Resistance

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), median each action shall be less than 0.05%.					



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Subject	Sample No.	Condition	Walk (%)	Head left/right (%)	Head up/down (%)	Talk (%)	Walk (%)	Mean (%)
Lv	1	A.R	2.78	8.68	5.47	9.28	3.01	5.84
, Li 👾	2	A.R	3.54	7.23	6.21	7.45	2.98	5.48
Zhong	3	A.R	3.65	8.77	5.76	8.69	4.05	6.18
Xu	4	A.R	3.44	9.05	6.98	6.55	3.55	5.91
Ма	5	A.R	3.55	6.49	6.95	9.03	5.29	6.26
Chen	6	T.C	3.26	5.89	7.89	8.53	4.21	5.96
Chen	7	T.C	4.84	6.05	8.55	7.66	3.65	6.15
Zhuo	8	T.C	3.93	7.33	9.33	8.05	4.85	6.70
Chen	9	T.C	4.93	5.89	7.58	6.58	5.43	6.08
Zhang	10	T.C	4.06	6.57	6.45	6.69	4.54	5.67

Annex 2-A: Inward Leakage Test Data

Annex 2-B: Facial dimension

Subject	Face Length	Face Width	Face Depth	Mouth Width
Lv	113	139	104	53
0, iD, 3	120	135	112	55
Zhong	108	135	106	56
Xu	120	150	120	70
Ма	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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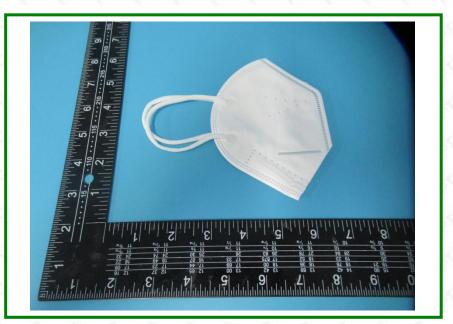


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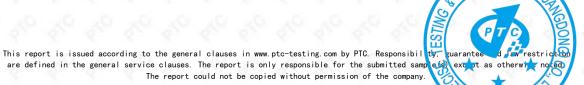
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Photo(s) of sample:









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End of Report



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