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Test Report

Report No.: WH0315-2020

Product Name: KN95 face mask

Specification: /

Applicant: Crown Name Disposable Hygiene Products Fty., Ltd.

Test type: Consignment Inspection

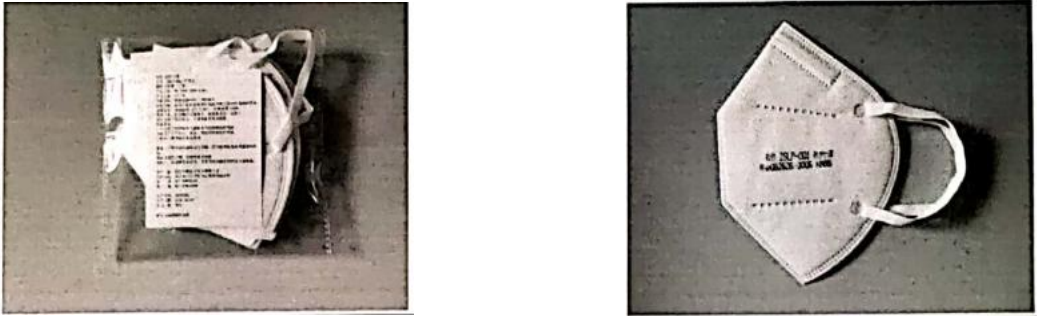
Report Date: 2020.3.10

National labor products quality supervision and Test Center (Wuhan)

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Product Name:	KN95 face mask	Specification:	/
Applicant:	Crown Name Disposable Hygiene Products Fty., Ltd.		
Address:	Chengbei Village, Xinzhou District, Wuhan City, Hubei Province		
Quantity:	36pcs	Production Date:	2020.3.2
Brand:	Song Ran	Manufacturer:	Crown Name Disposable Hygiene Products Fty., Ltd.
Contact:	Jiawei Li	Phone:	18771942333
Sample Date:	2020.3.3	Test Period:	2020.3.3-2020.3.6
Sample status:	Sample in good condition		
Test Standard:	GB2626 2006 《Respiratory protection Self-priming filter anti-particle respirator》		
Test Items:	General requirement, Appearance Check, Filtering rate, Total leakage rate of disposable masks, Inspiratory resistance, Expiratory resistance, Dead space, Visual field, Headband, flammability, Marks		
Sample Picture:			
Test Results:	Based on GB2626 2006 《Respiratory protection Self-priming filter anti-particle respirator》, all 11 tested items are complied with the standard.		

Test Result list of Self-priming filter anti-particle respirator

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Serial No.	Tested Item	Standard	Result	Conclusion
1	General Requirement	Material directly to face is harmless to skin.	Pass	Pass
		Filtering material is harmless to human body.	Pass	
		All materials have sufficient strength and should not break or deform during normal service life.	Pass	
		Not easy to cause structural damage, and the design, composition and installation of components should be no danger to users.	Pass	
		Adjustable headband to wear and take off, mask firmly fixed on face without obvious compression and tenderness, headband of half mask and full mask should be replaceable.	Adjustable headband to wear and take off, mask firmly fixed on face without obvious compression and	
		As little dead space and large field of view as possible.	Pass	
		When wearing, the lenses of the full face mask should not affect the vision such as fogging.	/	
		Respiratory protective equipment using replaceable filter elements, inhalation valves, exhalation valves and headbands should be designed for easy replacement, and users can check the air tightness of the mask and face at any time and	/	
		The breathing tube should not restrict the movement of the head or the user's movements, should not affect the tightness of the mask, and should not restrict or block the air flow.	/	
		The structure of the disposable mask should ensure close contact with the face, and it should not deform during its service life.	Pass	

2	Appearance Check	The surface of the sample should not be damaged, deformed, and other obvious defects.	Sample 1: Sample surface without damaged, deformed and other defects.	Pass
			Sample 1: Sample surface without damaged, deformed and other defects.	
		Component materials and structures should be able to withstand normal use conditions and the temperature, humidity, and mechanical shock that may be encountered.	Sample 1: Pass	
			Sample 2: Pass	
		Adjustable headband and replaceable headband of the replaceable mask.	Sample 1: Adjustable	
			Sample 2: Adjustable	
		Full-face lenses in wearing should not be affected by fogging or other visual effects.	Sample 1: /	
			Sample 2: /	
		After pretreatment by temperature and humidity, the parts should not fall off, be damaged or deformed.	Sample 1: No fall-off, damaged and deformed	
			Sample 2: No fall-off, damaged and deformed	
		After mechanical strength pretreatment, the parts should not fall off, be damaged or deformed.	Filter element 1: /	
			Filter element 2: /	

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Serial No.	Tested Item	Standard			Result		Conclusion	Remarks
3	Filtering rate	KN90≥90.0% KN95≥95.0% KN100≥99.97%			Lowest value: 96.7%		KN95 Pass	/
		KP90≥90.0% KP95≥95.0% KP100≥99.97%			Lowest value: /			
		NaCl Particle Detection Temp: (25±5)℃ Humidity:(30±10)%			Measured Temp.: 21.6℃-22.7℃ Measured Humidity.: 33.2%-34.5%			
		Oil Particle Detection Temp: (25±5)℃			Measured Temp.: /			
4	Total leakage rate of disposable masks	Filter parts level	Based on each TIL action as standard (10 person*5 actions), at least 46 TIL in 50 actions.	Based on all TIL as standard , at least total TIL of 8 in 10 persons	TIL of 50 actions	All TIL of 10 persons	KN95 Pass	/
		KN90 or KP90	<13%	<10%	/	/		
		KN95 or KP95	<11%	<8%	TIL of 50 actions<11%	TIL of 9 persons<8%		
		KN100 or KP100	<5%	<2%	/	/		
5	Leakage rate of replaceable half-face mask	Based on each TIL action as standard (10 person*5 actions), at least 46 TIL in 50 actions less than 5%.			/		/	No such test for disposable mask
		Based on all TIL as standard, at least total TIL of 8 in 10 persons less than 2%.			/			
6	Leakage rate of full-face mask	Based on each TIL action as standard (10 person*5 actions), at least 46 TIL in 50 actions less than 0.05%.			/		/	No such test for disposable mask
7	Inspiratory resistance	Total inspiratory resistance of each sample ≤350Pa			Highest value: 76Pa		Pass	/

8	Expiratory resistance	Total Expiratory resistance of each sample ≤250Pa	Highest value: 67Pa			Pass	/
9	Air tightness of exhalation valve	The following conditions must not occur in each sample: a)The suction flow rate has reached 500L/min, but the system negative pressure can't reach 1180Pa; b)Time for exhalation valve to normal pressure is less than 20s.	Trial sample	Condition a)	Condition b)	/	No such test as no exhalation valve
			Untreated sample	/	/		
			Untreated sample	/	/		
			Temp. and humidity pretreatment sample 1	/	/		
			Temp. and humidity pretreatment sample	/	/		
		Relative humidity on normal temperature and pressure <75%	Measured temperature: /				
			Measured pressure: /				
			Measured humidity: /				

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Serial No.	Tested Item	Standard		Result		Conclusion	Remarks		
10	Exhalation valve cover	The breathing valve cover of the disposable mask is subjected to an axial tensile force of 10N for 10 seconds, and there should be no slippage, fracture and deformation.		Sample	Record	/	No such test as no exhalation valve		
				1	/				
				2	/				
				3	/				
		The breathing valve cover of the replaceable mask is subjected to an axial tensile force of 50N for 10 seconds, and there should be no slippage, fracture and deformation.		Sample	Record				
				1	/				
				2	/				
				3	/				
11	Dead space	When expressed as the volume fraction of carbon dioxide in the inhaled air, the average value of the results $\leq 1\%$		Average value: 0.4%		Pass	/		
		Temperature: (16 - 32)℃		Measured temperature: 22℃					
12	Visual field	Half-face mask		Visual field below $\geq 60^0$		64 ⁰		Pass	/
		Full-face mask	Big-eye window	All view $\geq 70\%$		/			
				Binocular visual field $\geq 80\%$		/			
			Small-eye window	All view $\geq 70\%$		/			
				Binocular visual field $\geq 20\%$		/			
		13	Headband	Each headband, buckle and other adjustment parts of the disposable mask should not slip or break when it is subjected to a tensile force of 10N for 10s.		Untreated sample	No slippage or fracture		
Temperature and humidity	No slippage or fracture								
Each headband, buckle and other adjustment parts of the replaceable half-face mask should not slip or break when it is subjected to a tensile force of 50N for 10s.				/					
Each headband, buckle and other adjustment parts of the full-face mask should not slip or break when it is subjected to a tensile force of 150N for 10s.				/					

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Serial No.	Tested Item	Standard	Result		Conclusion	Remarks
14	Connection and connected parts	Under the specified test conditions, all the connections and connecting parts between the replaceable filter element and the mask should not slip, break and deform when subjected to an axial tensile force of 50N for 10 seconds.	/		/	No such test for disposable mask
		Under the specified test conditions, all connections and connection parts between the replaceable filter element and the mask, and between the breathing tube and the filter element and the mask, should not slip, break or deform when subjected to an axial tensile force of 250N for 10s.				
15	Lens	After each sample is impacted by the steel ball, the lens should not be broken or cracked.	Sample	Record	/	No such test for disposable mask
			Sample 1	/		
			Sample 2	/		
			Sample 3	/		
			Sample 4	/		
			Sample 5	/		
		The sample impacted by the steel ball is tested by air tightness method, the negative pressure drop in each sample within 60s should not be greater than 100Pa.	Sample	Record		
			Sample 1	/		
			Sample 2	/		
			Sample 3	/		
			Sample 4	/		
			Sample 5	/		
16	Air tightness	The negative pressure drop in each sample within 60s should not be greater than 100Pa.	/		/	No such test for disposable mask
17	Flammability	Parts exposed to the flame shall not burn after being removed from the flame. If burning, the duration does not exceed 5s	Sample	Record	Pass	/
			Untreated sample 1	4s		
			Untreated sample 2	3s		
			Untreated sample 3	4s		
			Untreated sample 4	4s		

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Serial No.	Tested Item	Standard		Result	Conclusion	Remarks
18	Marks	On product	Names, trademarks, or other marks that identify manufacturer or supplier	Song ran	Pass	/
			Model and size (if applicable)	ZSLP-001		
			Standard number and year, filter element marked with filter level	GB2626-2006		
		On inner package	Names, trademarks, or other marks that identify	Song ran Protective mask		
			Mask type	Disposable mask		
			Model and size (if applicable)	ZSLP-001 (ear-loop)		
			Standard number and year, filter element marked with filter level	GB2626-2006		
			Product License Number	/		
			Production date or Batch No.	2020.3.2		
			Storage life (at least in year)	2 years		
			"See information provided by supplier" mark	"See information provided by supplier" mark available		
Storage condition provided by supplier (at least Temp. and humidity)	Storage Temp. -20℃ -38℃ Storage Humidity ≤ 80%					
Main test machines		Number	Machine Name	Verification period		
		HJ-SB131	Filtration efficiency detection device	2019.8.28-2020.8.27		
		HJ-SB132	Leakage detection device	2019.8.28-2020.8.27		
		HJ-SB120	Breath resistance tester	2019.8.28-2020.8.27		
		HJ-SB160	HT-2321 Air permeability tester	2019.6.2-2020.6.1		
		HJ-SB021	BD-102 Horizontal Freezer (Temperature Controller)	2019.6.2-2020.6.1		
		HJ-SB119	LH-100 Aging test box	2019.6.2-2020.6.1		
		HJ-SB118	XMT101 Flammability tester	2019.6.2-2020.6.1		
		HJ-SB202	HT-2402 Computer Servo Control Material Testing Machine	2019.6.19-2020.6.18		

Inspection start and end date: 2020.3.3-2020.3.6