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国际互认
检测
TESTING
CNAS L1499

Test Report

Test Report No.: No.2020(H)-0109(EN)

PRODUCT: KN95 Protective Masks

APPLICANT: Wuhan Zonsen Medical Products Co., Ltd

TEST TYPE: Applicant Test

THE NATIONAL QUALITY SUPERVISION
AND TEST CENTER FOR PERSONAL
PROTECTION EQUIPMENT(BEIJING)

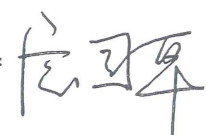
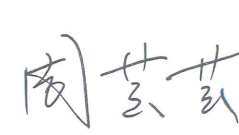
(北京)

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Product	KN95 Protective Masks		Brand	中森
Model	ZSLP-001		Grade	KN95
Applicant	Wuhan Zonsen Medical Products Co., Ltd		Applicant Tel.	027-82737771
Applicant Add.	Chengbei Industry Zone, Zhucheng Avenue, Xinzhou District, Wuhan City, Hubei Province, P.R.China			
Manufacturer	Wuhan Zonsen Medical Products Co., Ltd		Manufacturer Tel.	027-82737771
Manufacturer Add.	Chengbei Industry Zone, Zhucheng Avenue, Xinzhou District, Wuhan City, Hubei Province, P.R.China			
Sample Quantity	50	Manufactured Date	2020.04.02	
Sample Condition	Intact	Date Received	2020.04.20	
Sample Characteristic	White folding mask	Sample Deliverer	Zhao Yunxia	
According to	GB2626-2006 Respiratory protective equipment – Non-powered air-purifying particle respirator			
Test items	General, Visual inspection, Filter efficiency, Total inward leakage for disposable facepiece, Inhalation resistance, Exhalation resistance, Dead space, Field of vision, Head harness, Flammability, Marking			
Conclusion	The samples were tested in accordance with GB 2626-2006 Respiratory protective equipment - Non-powered airpurifying particle respirator , and data are listed in the test result summary. (Test report seal) 北京 Date : 2020.5.22 检验报告专用章			
Note				
Approved by:  Verified by:  Inspected by: 				

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No.	Test Item	Standard Clause	Requirement	Test Result	Conclusion	Note
1	General	5.1	Material which may come in contact with the skin and filter material should be harmless for the wearer; Material should have enough strength, and should have no damage or deformation in the nominal shelf life.	Satisfy the requirement	Pass	—
			All respirators should be less likely to produce mechanical defect; the design, composition and installation of respirators should not be a potential hazard or cause discomfort to the wearer.	All respirators are less likely to produce mechanical defect; the design, composition and installation of respirators are not a potential hazard or cause discomfort to the wearer.		
			The head harness shall be adjustable, and shall be designed so that the respirator can be donned and removed easily. The head harness shall be sufficiently robust to hold the respirator firmly in the face of wearer, in process of which the head harness should not cause obvious compression or tenderness to the wearer.	The head harnesses are adjustable, and are designed so that the respirator can be donned and removed easily. The head harnesses are sufficiently robust to hold the respirator firmly in the face of wearer, in process of which the head harnesses don't cause obvious compression or tenderness to the wearer.		
			The structure of disposable facepiece should be capable of maintaining seal with the face of wearer, and should not show deformation in the nominal shelf life.	The structures of disposable facepiece are capable of maintaining seal with the face of wearer.		

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No.	Test Item	Standard Clause	Requirement	Test Result		Conclusion	Note
2	Visual inspection	5.2	The surface of respirators should not show damage, deformation or other obvious defect; The material and structure should be capable of withstanding normal usage condition and the condition of temperature, humidity and mechanical strength which are likely to be encountered; the head harness shall be adjustable. After conditioned, the respirators shall show no signs of detachment, damage or deformation.	As received		Pass	—
				1#	No damage, deformation or other obvious defect; the head harness is adjustable		
				2#	No damage, deformation or other obvious defect; the head harness is adjustable		
				Temperature and humidity conditioned			
				6#	The respirator shows no signs of detachment, damage or deformation.		
				7#	The respirator shows no signs of detachment, damage or deformation.		

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No.	Test Item	Standard Clause	Requirement	Test Result				Conclusion	Note		
3	Filter efficiency	5.3	KN90≥ 90.0% KN95≥ 95.0% KN100≥ 99.97% Flow conditioning: Single filter: (85±4) L/min	Sample number		Initial filter efficiency (η)	Loading filter efficiency (η)	Pass (KN95)	—		
				As received	16#	98.6 %	98.6 %				
					17#	98.6 %	98.5 %				
					18#	98.6 %	98.5 %				
					19#	98.6 %	98.5 %				
					20#	98.6 %	98.5 %				
					21#	98.6 %	98.5 %				
					22#	98.6 %	98.5 %				
					23#	98.6 %	98.5 %				
					24#	98.6 %	98.5 %				
					25#	98.6 %	98.5 %				
				Temperature and humidity conditioned	26#	97.4 %	97.2 %				
					27#	97.4 %	97.2 %				
					28#	97.4 %	97.2 %				
					29#	97.4 %	97.2 %				
			30#		97.4 %	97.1 %					
KN: Ambient temperature: (25± 5)°C Relative humidity: (30±10)%		Ambient temperature: 21 °C Relative humidity: 31 %									

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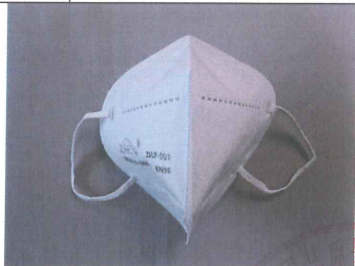
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No.	Test Item	Standard Clause	Requirement		Test Result			Conclusion	Note			
4	Total inward leakage for disposable facepiece	54.1	Classification	at least 46 out of the 50 individual exercise results for	As received	1#	47 out of the 50 individual exercise results $\leq 11\%$	Pass (KN95)	—			
				KN90		$< 13\%$	2#			47 out of the 50 individual exercise results $\leq 11\%$		
						KN95	$< 11\%$			3#	47 out of the 50 individual exercise results $\leq 11\%$	
							KN100			$< 5\%$	4#	47 out of the 50 individual exercise results $\leq 11\%$
										Temperature and humidity conditioned	5#	47 out of the 50 individual exercise results $\leq 11\%$
					6#						46 out of the 50 individual exercise results $\leq 11\%$	
				7#							46 out of the 50 individual exercise results $\leq 11\%$	
						8#					46 out of the 50 individual exercise results $\leq 11\%$	
							9#				46 out of the 50 individual exercise results $\leq 11\%$	
										10#	46 out of the 50 individual exercise results $\leq 11\%$	
			Classification		at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage						As received	1#
				KN90	$< 10\%$							2#
					KN95	$< 8\%$						3#
						KN100	$< 2\%$					4#
							Temperature and humidity conditioned			5#		9 individual wearer arithmetic means $\leq 8\%$
										6#	8 individual wearer arithmetic means $\leq 8\%$	
				7#							8 individual wearer arithmetic means $\leq 8\%$	
					8#						8 individual wearer arithmetic means $\leq 8\%$	
						9#					8 individual wearer arithmetic means $\leq 8\%$	
							10#				8 individual wearer arithmetic means $\leq 8\%$	
5	Inhalation resistance	5.5	$\leq 350\text{Pa}$					As received	3#	135 Pa	Pass	—
				4#					135 Pa			
				Temperature and humidity conditioned	7#			141 Pa				
					8#	141 Pa						
6	Exhalation resistance	5.5	$\leq 250\text{Pa}$	As received	3#	70 Pa	Pass	—				
					4#	70 Pa						
				Temperature and humidity conditioned	7#	76 Pa						
					8#	76 Pa						

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No.	Test Item	Standard Clause	Requirement		Test Result		Conclusion	Note
7	Dead space	5.7	The carbon dioxide content of the inhalation air shall not exceed an average of 1.0 % (by volume)		As received	0.5 %	Pass	——
			Temperature of the air: (16~32)℃		Temperature of the air: 25 ℃			
8	Field of vision	5.8	Field of vision	Class of mask	As received		Pass	——
				Half mask				
			Underneath field of vision	≥60°	4#	66°	Pass	——
9	head harness	5.9	Each strap of the head harness shall withstand a pull of 10N applied for 10s in the direction of pulling, and no breaks or sliding of the straps shall occur.		As received		Pass	——
					1#	10N, 10s no breaks or sliding of the straps occurred.		
					Temperature and humidity conditioned			
					8#	10N, 10s no breaks or sliding of the straps occurred.		
10	Flammability	5.13	The respirator shall not burn or not to continue to burn for more than 5 s after removal from the flame.		As received		Pass	——
					1#	Burn 0s		
					2#	Burn 0s		
					Temperature and humidity conditioned			
					9#	Burn 0s		
					10#	Burn 0s		
11	Marking	7.1	a) The name, trademark or other means of identification of the manufacturer or supplier. b) Type-identifying marking. c) The number and year of publication of this European Standard and classification		a) RuiBangSheng b) KN9501 c) GB 2626-2006 KN95		Pass	——
Sample photo								
Note			Temperature and humidity conditioning a) for 24h to a temperature of 38℃ and a relative humidity of 85%; b) for 24h to a dry temperature of 70℃; c) for 24h to a temperature of -30℃.					

————— End —————

Test Date: 2020.04.20- 2020.05.20

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