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- 6. If there is any objection to the report, it should be submitted within 15 days from the date of receipt of the report, and it will not be accepted after the deadline.

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China Academy of Safety Science and Technology Test Report of Non-powered air-purifying particle respirator

No.: WLH0254-2020(E) SNN70370B Product Name Particle Filtering Half Mask Model Product Type Disposable Respirator (Without Valve, KN95) 圣泉 Trade Mark Manufacturer Shandong Shengquan New Materials Co., Ltd. Industry Development Zones, Diaozhen Town, Postcode Mail Address Zhangqiu, Shandong Province, China Telephone No. 15275417290 Contact Person Li Xuewei Production Date 36 pcs of Respirators 10th Mar, 2020 Sample Quantity 21st Apr, 2020 Intact appearance and complete packaging Sample Received Sample Status Arrival Mode Mailing Test Category Type Test Identification No. Shandong Shengquan New Materials Co., Ltd. Consigned by of LA mark GB 2626-2006 "Respiratory protective equipment—Non-powered air-purifying particle Test Specification respirator" General Requirements, Visual Inspection, Filter Efficiency, Total Inward Leakage, Inhalation Resistance, Exhalation Resistance, Dead Space, Visual Field, Head Harness, Flammability, Test Items Information supplied by the manufacturer, Mark Sample Photos The samples were tested according to Chinese National standard GB 2626-2006 "Respiratory protective equipment—Non-powered air-purifying particle respirator", after Test Conclusion inspection, all the test results pass the standard technical requirements. Issued date 2020-0 ①Sample No.: WLH0254-2020 2 Record number: WLH0254-2020 Remarks 3 Sample appearance: Willow leaf-shaped folding type facepiece, with built-in nose clip and white ear straps. Auditor: Approval: Tester:

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Parts that may directly contact wearer's face shall not be harmful to skin; Filter material shall not be harmful to people; Materials used should have sufficient strength, and there shall be no damage or distortion in the normal life cycle. Structural design should conform to: a) structural disaggregation shall not likely occur, and the design, components and assembly shall not be harmful to the user; b) The head harness should be adjustable, convenient for wearing and removal, be able to fix the facepiece on wearer's face securely without apparent pressure and hurt feeling: the head harness design of the replaceable half facepiece and full facepiece should be replaceable; c) There shall be relatively small dead space and bigger visual field as much as possible; d) the visor of full facepiece shall not fog and affecting vision when in use; e) replaceable filter elements, valves and head harness shall be facilitating for replacement and facial seal check during use. f) breathing hose shall not affect face seal or limit and block air flow. g) Disposable facepiece shall provide proper face seal, shall not deform during normal use. The sample surface shall not be damaged, deformation, or with other obvious defects the component materials and structure Pass Visual Visual Parts directly contact face are not harmful Materials used have sufficient strength Meet the requirements Heet the requirements provide the requirements and specific provide sufficient strength Meet the requirement and face seal of the replaceant provide sufficient strength Meet the requirement		Test Result Summa	ry Spend		Beling
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2 Pass	NACON .	deformation, or with other obvious defects	deformation and other	6	7. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
conditions and possible temperature, humidity and mechanical impact that may	A D COMPANY OF COMM	should be able to stand normal use conditions and possible temperature,	Meet the requirements	Pass (C)	* 7

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1 Brian			Test Result Summar	J Pring		(S) Island	
No.	Test Items		Standard Requirements	Test R	esults	Assessment	Remark
.* Asa		head har	harness should be adjustable; the ness design of the replaceable should be replaceable.	Head harness is adjustable		44 de 1	180
Visual 2	Visual Inspection	all the second second	ass of full facepiece shall not be at affect the vision when wearing.	A Wealthe		Pass	Kedi
JUA FIN	*	After temperature and humidity pretreatment and mechanical strength pretreatment, the		After pretreatment, no fall off, damage and deformation		SHENGGUAN SHENGGUAN	*
			≥90.0% (KN90)		1		
	Helper		Ill sher	As Rec	eived		
	MERIN	The state of the s	Madi	98.9%	96.6%		N. P. D
	12)		***	98.9%	98.5%		1
DE Prop	♦	(Editor, *	97.7%	99.0%	S COUA!	40
ja. Nje-			SHEET WAS CHEET	98.7%	98.3%	SHEM!	
			7	98.4%	98.7%		
	An s	KN	≥95.0% (KN95)	Temperature and Humidity	Mechanical Strength		R
	Billip	į KIN	diffit	Conditioning 98.0%	Conditioning /		
	Filter		WHO W	96.5%	» I		MAC
3 JAnna	Efficiency		D HAT S	98.3%	1	Pass	* 1
offic-			SHENG # SHET	97.9%	/	SHEME CULL	
			4	95.8%	1	44	
	MA S		≥99.97% (KN100)	18	1 5		AR
A Year Hite	dip.	Ambient temperature: (25±5)°C; Relative humidity: (30±10)%	26°C 35%			Medi	
lung	ALT WAS ASSESSED.		≥90.0% (KP90)	1 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/2 1/		6	. *
Ja.		V.D.	≥95.0% (KP95)	POTING A	1	LET LE CILLA	
*	KP	≥99.97% (KP100)	*	1	Chr. Sp.		
			Ambient temperature: (25±5)ºC;	- 1	,		a.

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Bling			Test Result Summary	N. Delay			Belong
lo.	Test Items	Standard Re	equirements	Test R	esults	Assessment	Remark
}-		When TIL of each action is taken as	<13% (KN90/KP90)	* /		44 B	
An s	basis of evaluation (10 people x 5 actions), TIL of at	<11% (KN95/KP95)	TIL values actions are 8.8%			A	
	Leakage	(TIL) When the overall TIL	<5% (KN100/KP100)	7	A CHILL		
-1	(Disposable		<10% (KN90/KP90)		40	Pass SHERECHI	KN95
to lange	Respirator)	as basis for evaluation, the total TIL of at least 8	<8% (KN95/KP95)	Overall TIL all 10 subje than 6.1%			Allen
		people of the 10 subjects	<2% (KN100/KP100)	/		44	
-2	Inward Leakage (IL)	When the IL of each action is taken as basis of evaluation (that is, 10 people x 5 actions), the IL of at least 46 actions of the 50 actions <5%.		111	adifficer of	,	
Bluny	(Replaceable Half facepiece Respirator)	when the overall IL of basis for evaluation, th people of the 10 subje	Next I H		6	gan	
-3	Inward Leakage (IL) (Replaceable Full facepiece Respirator)	When the IL of each ac of evaluation (that is, actions), the IL of each	10 people x 5	* /		SHEW S	1
	. Cities		Tilier	As Received	Temperature and Humidity Conditioning		
5	Inhalation Resistance	the total inhalation res sample ≤350 Pa	sistance of each	60 Pa	56 Pa	Pass	1,76
any .	4.,	(5) 10 m		61 Pa	57 Pa	5	ling
*	Exhalation		SHE	As Received	Temperature and Humidity Conditioning	Pass #	**
6	Resistance	the total exhalation resistance ≤250 Pa		58 Pa	54 Pa		/
All s		1	61 Pa	56 Pa		Ali	
	Meditio	a) When the air extract reaches 500 mL/min, t pressure cannot reach	44	Zelfilit W		174	
7	Exhalation Valve	Valve b) The time for restoration of the exhalation		As Received	Temperature and Humidity Conditioning	Shiring the same of the same o	75.00 W
die-	Air-Tightness			/	/		*
Ba		Normal temperature, relative humidity < 75		1	-	****	A.



China Academy of Safety Science and Technology Test Report of Non-powered air-purifying particle respirator WLH0254-2020(E) Test Result Summary

10.: WLHUZ54-202	Test Result Summa	L. em	6	اد
Took Idomes	72' 80	Test Results	A	Remark
No. Test Items Exhalation	Standard Requirements The exhalation valve cap of the disposable facepiece is subjected to an axial tensile force of 10N for 10 seconds, and should not slide, break and distort.		Assessment	Kemari
8 Valve Cap	The exhalation valve cap of the replaceable facepiece is subjected to an axial tensile force of 50N for 10 seconds, and should not slide, break and distort.	Wealther .	,	1
9 Dead Space	When expressed as the volume fraction of carbon dioxide in the inhaled air, the average value of the results should be ≤1%	0.38%	Pass	W. W.
	Ambient temperature: (16~32)°C;	25℃	4/	
an .	Disposable or half facepiece Down direction visual field≥60º	60°		di
alfiber .	Single Total visual field≥70%	I deliber		
LO Visual Field	Full face- visor Overlapped visual field≥80%	**************************************	Pass	12
D. Comp	piece Twin visor Total visual field≥70% Overlapped visual	DECHARM A		Selection (1)
	field≥20%	\$ * T	SHELL	elde.
finer .	Each head harness, buckling and other adjustable components of the disposable facepiece should not slip or break when it is subjected to a tensile force of 10N for 10s.	10N tensile force pulling for 10s without slippage or break	49	11
Head Harness	Each head harness, buckling and other adjustable components of the replaceable half facepiece should not slip or break when it is subjected to a tensile force of 50N for 10s.	dual wheel who	Pass	F12.7 (1)
	Each head harness, buckling and other adjustable components of the full facepiece should not slip or break when it is subjected to a tensile force of 150N for 10s.		SHEM'S	*
Wealthat W	All the connections and connecting parts between the replaceable filter element and the half facepiece should not be no slide, break or distortion when subjected to an axial tensile force of 50N for 10s.	A Kalificat		12
Connection and connector	All connections and connection parts between the replaceable filter element and the full facepiece, and between the breathing hose and the filter element and the full facepiece should not be no slide,	E CUATO	SHENGON SHENGON	***
Mos	break or distortion when subjected to an axial tensile force of 250N for 10s.	111 3		A

China Academy of Safety Science and Technology Test Report of Non-powered air-purifying particle respirator NLH0254-2020(E)

No.: WLH0254-2020(E) **Test Result Summary** Test Items Standard Requirements Test Results Assessment Remark After each sample is impacted by a steel ball, No eyeglass of the sample shall be broken or in crack; visor Tested by the air tightness of the sample 13 after the impact of the steel ball, the (Full facepiece) negative pressure drop in each sample within 60s should not be greater than 100Pa The negative pressure drop in each Air Tightness 14 sample within 60s should not be greater (Full facepiece) than 100Pa Temperature As and Humidity After being removed from the flame, Received Conditioning Various parts exposed to the flame should 15 Flammability Pass 0.5snot burn; if burned, the after burning 0.6stime should not exceed 5s. 0.7s0.5sSuch information should be supplied along with the minimum package for There shall be Chinese explanation. The information should be clear, and help explanations such as explanations, part numbers, and labels can be added. Information Include the following information that provided in users must know: Chinese, a) Scope of application and restriction; explained clearly, b) For replaceable filter elements, there and supplied with should be explanations on the method for the minimum use together with full or half facepiece, and if multiple filer materials, there package; should be indications; The information c) Method of assemblage of the contained in the Information replaceable facepiece; specification is 16 supplied by the d) Method of inspection before use; comprehensive manufacturer e) Method of wearing and method of and sufficient for inspection of the wearing air tightness; f) Suggestions as to when to replace the filter elements; g) If applicable, the method of maintenance (for instance, method of cleaning and sterilization); h) Methods of storage; i) Meaning of any of the symbols and icons used; Provide warnings about problems that Some required may be encountered during use, such as: warnings a) Adaptability b) Hair under the close frame can cause information the mask to leak provided c) Air quality (pollutants, hypoxia, etc.)

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No.: WLH0254-2020(E) 7/7

V Shing	S SUPPLEMENT	Test Result Summar	And Paling		ling
No. Test Items		Requirements	Test Results	Assessment	Remark
atter .	The product body should have the product name, trademark or other manufacturer's identification, type or model (if applicable), implementation standard and year number, filter element filter grade		Mark and related information meet the requirements	5° %	111
17 Mark	Product packaging product name, tra manufacturer-ide model number (if implementation standard, filter eler product license nu date, or productio Storage life, "see i	Product packaging should have the product name, trademark, or other manufacturer-identifiable label, type or model number (if applicable), mplementation standard and year number, filter element filter grade, product license number, production late, or production batch number, storage life, "see information provided by manufacturer", manufacturer's		Pass Supplied to the supplied	
alfilia	Equipment No.	Equipment Name		Verification Period	
14 15 W.	2010072S	High and Low Temperature Humidity Test Chamber SH-641		2020.04.18~2021.04.1	
br _m .	GJ-SB353	TSI8130 Filtration Efficiency Tester		Mighton (4)	
	GJ-SB413	Inward leakage test cabin		SHE 1 ST	
	GJ-SB369	TSI9306A Aerosol Generator		1	
All de	GJ-SB371	GJ-SB371 TSI8587A Aerosol Photometer		/	di
Main Test Equipment	GJ-SB372	TSI8587A Aerosol Photometer		^	
	GJ-SB415	Breathing Resistance Test Device		2020.02.14~2021.02.	
PZZ W	GJ-SB505	Microcomputer Controlled Universal Testing Machine		2020.04.18~2021.04	
	GJ-SB380	INSPEC Apertometer		5 4	
a.	GJ-SB417	Dead Space Test Dev	2020.02.17~2021.02.		
Mar.	GJ-SB381	Face Mask Flammab	2020.02.03~2021.02.0		

Test Period: Apr 21 2020 ~ Apr 30, 2020

End of Test Report.

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