

Declaration of Conformity

Certificate No.: TMC200320124-S

Applicant/ Zhongshan Xinshili Protective Equipment Co., Ltd

Address: Floor 2, No.12 Yuxing Road, Minle Community, Dongfeng Town, Zhongshan City

Manufacturer/ Zhongshan Xinshili Protective Equipment Co., Ltd

Address: Floor 2, No.12 Yuxing Road, Minle Community, Dongfeng Town, Zhongshan City

Product Name: Protective Respirator for civil use

Trade Name: N/A

Model/Item Number: MaskKN95

Rated: --

Classification: Class I

Date and March 23,2020

Number of Test Report: TMC200320124-S

EC-directive: PPE Directive (EU) 2016/425

Test Standard: EN149:2001+A1:2009

Conclusion

This Declaration of PPE Compliance has been granted to applicant based on the results of tests, performed by Laboratory of TMC Testing Services (Shenzhen) Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the PPE Directive (EU) 2016/425. It is possible to use CE marking to demonstrate the compliance with this Directive.

Place and date of issue: Shenzhen, March 23,2020

TMC Testing Services (Shenzhen) Co., Ltd.

1st Floor, Block A1, Zone A, Xinshidai Gongrong Industrial Park, No. 2,

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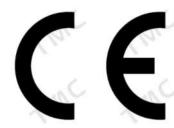


Lab Director Lemon Rao





Report No.: TMC200320124-S



Test Report

On Behalf of

Zhongshan Xinshili Protective Equipment Co., Ltd

Protective Respirator for civil use

Model: MaskKN95

Prepared for : Zhongshan Xinshili Protective Equipment Co., Ltd

Floor 2, No.12 Yuxing Road, Minle Community, Dongfeng

Town, Zhongshan City

Prepared By: TMC Testing Services (Shenzhen) Co., Ltd.

1st Floor, Block A1, Zone A, Xinshidai Gongrong Industrial Park, No. 2, Shihuan Road, Shiyan Street, Baoan District,

Shenzhen, China

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Report No.: TMC200320124-S

TEST REPORT EN 149

Respiratory protective devices. Filtering half masks to protect against particles.Requirements,testing,marking

Report Reference No...... TMC200320124-S

Checked by

(printed name and signature) ... :

Seven Lin

Approved by

(printed name and signature) ...

Lemon Rao

Seven Liu

Date of issue...... March 23, 2020

Testing laboratory.....: TMC Testing Services(Shenzhen) Co., Ltd. appl

Address...... 1st Floor, Block A1, Zone A, Xinshidai Gongrong Industrial Park,

No. 2, Shihuan Road, Shiyan Street, Baoan District, Shenzhen,

China

Address...... Floor 2, No.12 Yuxing Road, Minle Community, Dongfeng Town,

Zhongshan City

Manufacturer's name...... Zhongshan Xinshili Protective Equipment Co., Ltd

Address....... Floor 2, No.12 Yuxing Road, Minle Community, Dongfeng Town,

Zhongshan City

Factory's name...... Same as applicant

Address.....:

Test specification:

Standard.....: 🔀 EN 149:2001+A1:2009

Test procedure....: CE
Non-standard test method....: N/A

Test Report Form No.....: TMC200320124-S

TRF Originator..... TMC

Master TRF.....: Dated 2019-01

Test item description.....: Protective Respirator for civil use

Trade Mark...... N/A

Model/Type reference...... MaskKN95

Ratings..... --



Report No.: TMC200320124

Possible test case verdicts:

- test case does not apply to the test object ... N (Not apply)
- test object does meet the requirement......P (Pass)
- test object does not meet the requirement..... F (Fail)

Testing

Date of receipt of test item March 13, 2020

Date(s) of performance of tests March 13, 2020 to March 23, 2020

General remarks:

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

"(See Enclosure #)" refers to additional information appended to the report.

"(See appended table)" refers to a table appended to the report

General product information:

Copy of marking plate:

Protective Respirator for civil use

Model:MaskKN95

Standard: EN 149:2001+A1:2009

Classification: FFP2



Zhongshan Xinshili Protective Equipment Co., Ltd

Made in China



TMC Testing Services(Shenzhen) Co., Ltd

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EN 149

-7	1. 1.	EN 149	7. 7.	1
Clause	Requirement – Test		Result - Remark	Verdict

5	100	Classification	110	110	
	rin C	Particle filtering half masks are classified according to their filtering efficiency and their maximum total inward leakage. There are three classes of devices:	- nin C	, win C	Р
1	300	- FFP1	11	10	N
		- FFP2	>95%	120	Р
	3/12	- FFP3	- MC	~UC	N

6	Designation		
THE	Particle filtering half masks meeting the requirements of this European Standard. Year of publication, classification, option	Particle filtering half mask EN149:2001+A1:2009 FFP2 NR.	P

7,110	Requirements	· anc anc	
7.1	General	10, 10,	PΛ
	All test all test samples shall meet the requirements.	Compled the requirement, see bellow	Р
7.2	Nominal values and tolerances	" "I'C " "I'C	Р
1	Unless otherwise specified, the values stated in this European Standard are experature limits.	12 12	Р
7.3	Visual inspection		Р
Line	The visual inspection shall also include the marking and the information supplied by the manufacturer.	Clear marking is provided, see sample body	P
7.4	Packaging		Р
(by C	Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.	THIC THIC	P
7.5	Material		Р
LINC	Materials used shall be suitable to withstand handling and wear over the period for which the particle filtering half mask is designed to be used. Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comfortable wearing, when releasing no hazards is produced.	P
7.6	Cleaning and disinfecting	- in - in	N
- MAC	If the particle filtering half mask is designed to be re- usable, the materials used shall withstand the cleaning and disinfecting agents and procedures to be specified by the manufacturer.	It's is not re-usable.	N
7.7	Practical performance	10 10	Р
. (The particle filtering half mask shall undergo practical performance tests under realistic conditions.	Complied, see append test.	Р
7.8	Finish of parts	The The	Р
	come into contact with the wearer shall have no sharp edges or burrs		Р
7.9	Leakage	See append table 8.5	Р
7.9.1	Total inward leakage	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	Р



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	EN 149		
Clause	Requirement – Test	Result - Remark	Verdic
	O O O		
Lin	The laboratory tests shall wearer to protect with high probability against the potential hazard to be expected.	Enough safe condition is Provide.	P
	Exercise results for total inward leakage shall be not greater than	2 2	Р
Line	25% for FFP1 11% for FFP2 5% for FFP3	FFP2, Not exceed 11%	P
THIC	And, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than.	THIC THIC	Р
	22 % for FFP1 8 % for FFP2 2 % for FFP3.	FFP2, Not exceed 8%	Р
7.9.2	Penetration of filter material	10, 10,	P.<
	The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.	see append table 7.92	Р
7.10	Compatibility with shin	and and	Р
1/10	Materials that may come into contact with the wearer's skin shall not be known to be likely to cause irritation or any other adverse effect to health.	La La	Р
7.11	Flammability	and and	Р
110	The material used shall not present a danger for the wearer and shall not be of highly flammable nature.	An. Am.	Р
7.12	Carbon dioxide content of the inhalation air	((Р
1 kg	The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0% (by volume).	<1.0%	P
7.13	Head harness		Р
THIC	Head harness shall be designed can be donned and removed easily and adjustable or selfadjusting and sufficiently robust to hold the particle.	Head harness is donned and removed easily	P
7.14	Field of vision		Р
MC	Field of vision is acceptable in practical performance tests.	Clear field of vsion when wearing	Р
7.15	Exhalation valve(s)		N
- NAC	A particle filtering half mask may have one or more exhalation valve(s) and shall function correctly in all orientations.	One valve provided	N
	Exhalation valve is provided it shall be protected against or be resistant to dirt and mechanical damage and may be shrouded or may include any other device.	Clearly function	N
1 kills	Exhalation valve(s) shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	Lay Lay	N
On C	Exhalation valve housing is attached to the faceblank, and withstand axially a tensile force of 10 N applied for 10 s.	anc anc	N
7.16	Breathing resistance	1/n. 1/n.	P
	Ereathing resistances apply to valved and valveless and shall meet the requirements.		Р
7.17	Clogging	- We - We	N
1	General	1, 1,	N



	EN 149		
Clause	Requirement – Test	Result - Remark	Verdict
-11/	and and and	300 300	
100	For single-use devices clogging test is an optional test.	10, 10,	N
	Devices designed to be resistant to clogging, shown by a slow increase		N
-11/1°C	The specified breathing resistances shall not be exceeded before the required dust load of 833 mg·h/m³.	-WC -WC	N
7.17.2	Breathing resistance	.//.	N
7.17.2.1	Valved particle filtering half masks	/ /	N
7.17.2.2	Valveless particle filtering half masks	- Mr - Mr	N
7.17.3	Penetration of filter materia	1, 1,	N
- NIAC	All types claimed to meet the clogging requirement shall also meet the penetration requirements given in 7.9.2 after the treatment.	THIC THIC	N
7.18	Demountable parts		N
,nC	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	No such demountable part	N
1 6/1	14, 14, 14, 14,	1 ln 1 ln	~
8	Testing		
8.1	General	,C ,C	Р
1411	No special measuring devices and methods are specified, commonly used devices and methods shall be used.	I MILL I MILL	Р
8.2	Visual inspection		Р
THE	The visual inspection is carried out appropriate by the test house prior to laboratory or practical performance tests.	THIC THIC	Р
8.3	Conditioning		Р
8.3.1	Simulated wearing treatment	.((.	Р
144	A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke.	25 cycles/min 2,0 l/stroke.	P
o'NC	For testing, a saturator is incorporated in the exhalation line between the breathing machine and the dummy head,	A saturator incorporated by breathing machine and the dummy head.	Р
14	The spilling out of the dummy's mouth and contaminating the particle filtering half mask the head shall be incline	Incline considered	Р
8.3.2	Temperature conditioning	((Р
I PIN	Exposet masks to the following thermal cycle:	The Me	Р
	a) for 24 h to a dry atmosphere of (70 ± 3) ℃;	7. 7.	Р
- 1	b) for 24 h to a temperature of (-30 \pm 3) $^{\circ}$ C;	1 1	Р
Lille	Allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.	5h to paid for	Р
8.3.4	Flow conditioning		Р
1 MIC	A total of 3 valved particle filtering half masks shall be tested, one as received and two temperature conditioned in accordance with 8.3.2.	LAUC LAUC	P
9С	Marking	Da. Da.	
9.1	Packaging	× 1211 × 1211 ×	P



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Clause	Requirement – Test	Result - Remark	Verdict
1 Miles	The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.	Complied, clearly marked	Р
9.1.1	The name, trademark or other means of identification of the manufacturer or supplier.	one one	Р
9.1.2	Type-identifying marking.	410. 410.	Р
9.1.3	Classification: FFP1, FFP2, FFP3.	FFP2 NR	Р
9.1.4	The number and year of publication of this European Standard.	"ALC "ALC	Р
9.1.5	At least the year of end of shelf life.	.//.	Р
9.1.6	The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.	LAUC LAUC	Р
9.1.7	The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.	See product manual	Р
9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall beadditionally marked with the letter "D".	10 10	N
9.2	Particle filtering half mask	will will	Р
	Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:		Р
9.2.1	The name, trademark or other means of identification of the manufacturer or supplier.	Zhongshan Xinshili Protective Equipment Co., Ltd	Р
9.2.2	Type-identifying marking.	/ /	Р
9.2.3	The number and year of publication of this European Standard.	THIS THIS	Р
9.2.4	The symbols FFP1, FFP2 or FFP3 according to class.	FFP2 NR	Р
9.2.5	If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the class designation (see 9.2.4).	LAUC LINC	N
9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.		N



TIME resuing	Services(Shenzhen) Co., Ltd	41/4	Report No.: TMG200320124-			
11/11	14. 14.	EN 149	1. L. L. 1.	1		
Clause	Requirement – Test		Result - Remark	Verdict		

Attachments: Test table

Table 7.9.2	7	Penetration	Penetration of test aerosol test				
Item	Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
Sodium chloride to	est 95 I/min	5.6	5.7	5.5	5.6	5.7	5.6
Paraffin oil test 95	5 I/min	5.4	5.6	5.7	5.7	5.6	5.5

Table 8.5	Table 8.5 Leakage test			,	P
Models Item	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
NaCl flow rate (L/min)	90	100	120	110	120
NaCl aerosol (um)	0.3	0.3	0.3	0.3	0.3
0.3Pumping flow rate (L/min)	30	30	30	30	30
NaCl concentration before mask (Mg/m3)	2	2	2	2	2
NaCl concentration after mask (Mg/m3)	0.05	0.06	0.07	0.08	0.06

Note: Test ark volume is 2m3

Average Leakage ratio is 8%<11% Calculation formula as below:

$$P(\%) = \frac{C_2}{C_1} \times \left(\frac{t_{IN} + t_{EX}}{t_{IN}}\right) \times 100$$

Table 8.9.2	Table 8.9.2 Exhalation resistance test				
Models tem	Sample 1	Sample 2	Sample 3	Sample 4	Sample !
Inhalation gas velocity (L/min)	160	160	160	160	160
Maximum resistance (mbar)	2.45	2.47	2.45	2.46	2.46

Table 8.9.3	Inhalation resistance test				.CP	
Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	
Inhalation gas velocity (L/min)	30	30	30	30	30	
Maximum resistance (mbar)	0.42	0.44	0.44	0.45	0.43	
Maximum resistance (mbar) Conclusion: Maximum Inhalation r			0.44	0.45		



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1/1/2	La. La.	EN 149	14. 14.	40
Clause	Requirement – Test		Result - Remark	Verdict

Table 8.9.3.2	Inhalation re	Inhalation resistance test				
Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	
Inhalation (L/min)	95	95	95	95	95	
Maximum resistance (mbar)	2.12	2.14	2.16	2.15	2.14	



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Photo Documentation



Photo 1 Overview

- End of Test Report -