

Report No.: TMC200331112-S



Test Report

On Behalf of Zhejiang Qianye Garment Co., Ltd

KN95 Disposable Face Mask

Prepared for :

Model:

Zhejiang Qianye Garment Co., Ltd xujiang industry zone yiwu 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 Tel: +86-755- 86642861 Web: www.tmc-lab.com E-mail: Cert@tmc-lab.com

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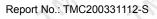
Report No.: TMC200331112-S

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	ve devices. Filtering half masks to protect ag cles.Requirements,testing,marking	ainst	<
Report Reference No: Checked by	TMC200331112-S	~ MAC	~
(printed name and signature) : Approved by	Seven Liu	Lin	<
(printed name and signature) : Date of issue	Lemon Rao March 31, 2020	THAC	<'
Testing laboratory	TMC Testing Services(Shenzhen) Co., Ltd. 1st Floor, Block A1, Zone A, Xinshidai Gongron No. 2, Shihuan Road, Shiyan Street, Baoan Dis China	•	
Applicant's name Address	Zhejiang Qianye Garment Co., Ltd xujiang industry zone yiwu city	1 th	<
Manufacturer's name	Zhejiang Qianye Garment Co., Ltd	. C.	
Manufacturer's name Address		THAC	<
Manufacturer's name Address Factory's name	Zhejiang Qianye Garment Co., Ltd xujiang industry zone yiwu city	THAC	- 11 - 11
Manufacturer's name : Address : Factory's name : Address : Address : Test specification: : Standard : Test procedure :	Zhejiang Qianye Garment Co., Ltd xujiang industry zone yiwu city Same as applicant EN 149:2001+A1:2009 CE N/A	THAC	TNN TNN
Manufacturer's name : Address : Factory's name : Address : Address : Test specification: : Standard : Test procedure : Non-standard test method :	Zhejiang Qianye Garment Co., Ltd xujiang industry zone yiwu city Same as applicant ⊠ EN 149:2001+A1:2009 CE N/A TMC200331112-S	THAC HARC	71 710 71
Manufacturer's name Address Address Factory's name Factory's name Address Address Test specification: Standard Test procedure Non-standard test method Test Report Form No TRF Originator Test Procedure	Zhejiang Qianye Garment Co., Ltd xujiang industry zone yiwu city Same as applicant ⊠ EN 149:2001+A1:2009 CE N/A TMC200331112-S	THAC	-1" -1"
Manufacturer's name : Address : Factory's name : Address : Address : Test specification: : Standard : Test procedure : Non-standard test method : Test Report Form No :	Zhejiang Qianye Garment Co., Ltd xujiang industry zone yiwu city Same as applicant ⊠ EN 149:2001+A1:2009 CE N/A TMC200331112-S TMC	THAC THAC	11 11 11 1

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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 18, 2020

Date(s) of performance of tests March 18, 2020 to March 31, 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:

N/A

Copy of marking plate:

KN95 Disposable Face Mask Model:KN95 Standard: EN 149:2001+A1:2009 Classification: FFP2

Zhejiang Qianye Garment Co., Ltd

Made in China

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	g Services(Shenzhen) Co.	, Ltd	Ar	Ar	Repor	t No.: TMC200	331112-S
10	Lp.	14	EN 149	1h	1 m	14	<
Clause	Requirement – Tes	st			Result - Remark		Verdict
Ar.	- anc	In	SIL	-ne	Alle	Alle	
5	Classification	CL.	10	Lu.	1 p	10	
, en C	Particle filtering hat their filtering efficient leakage. There are	ency and th	eir maximum to		MC	- MC	Р
11.	- FFP1	11.	11	11	1.	11.	N
	- FFP2				>95%		Р
110	- FFP3	Are	Alle	One	All	-nc	Ν
Le.	Le.	14.	X4.	Lu.	Le.	1h.	<
6	Designation						

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

7.1	General	11 1 h	P
	All test all test samples shall meet the requirements.	Compled the requirement, see bellow	Ρ
7.2	Nominal values and tolerances	Mrs. Mrs.	Р
(12	Unless otherwise specified, the values stated in this European Standard are experature limits.	Les Les	Р
7.3	Visual inspection		Р
Chu.	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
NANC	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	R
7.5	Material		Ρ
(MAC	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.	Ρ
7.6	Cleaning and disinfecting	No in	N
, and	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	1. 1.	Р
.(The particle filtering half mask shall undergo practical performance tests under realistic conditions.	Complied, see append test.	Ρ
7.8	Finish of parts	X PAL X PAL	Р
	come into contact with the wearer shall have no sharp edges or burrs		Ρ
7.9	Leakage	See append table 8.5	Р
7.9.1	Total inward leakage	XL. XL.	P

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Clause	Poquiromont Tost	Result - Remark	Verdict
Jause	Requirement – Test	Result - Remark	verdict
~ leve	The laboratory tests shall wearer to protect with high probability against the potential hazard to be expected.	Enough safe condition is Provide.	P
1	Exercise results for total inward leakage shall be not greater than	1 1	Р
1 MAC	25% for FFP1 11% for FFP2 5% for FFP3	FFP2, Not exceed 11%	P
~ MAC	And, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than.	THAC THAC	Р
500	22 % for FFP1 8 % for FFP2 2 % for FFP3.	FFP2, Not exceed 8%	Р
7.9.2	Penetration of filter material	×6, ×6,	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	no ma	Р
1 m	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.	de de	Р
7.11	Flammability	and and	Р
113	The material used shall not present a danger for the wearer and shall not be of highly flammable nature.	Lo. Lo.	Р
7.12	Carbon dioxide content of the inhalation air		Р
1 KM	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
(MC	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
N/A	Field of vision is acceptable in practical performance tests.	Clear field of vsion when wearing	Р
7.15	Exhalation valve(s)	<i>.</i>	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 HANS	Exhalation valve(s) shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	Leve Leve	N
Onto	Exhalation valve housing is attached to the faceblank, and withstand axially a tensile force of 10 N applied for 10 s.	and and	N
7.16	Breathing resistance	Lu. Lu.	P
6	Ereathing resistances apply to valved and valveless and shall meet the requirements.	((Р
7.17	Clogging	Mr. an	N
1.	General	1. 1.	N

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Clause	Requirement – Test	Result - Remark	Verdict
200			-
× lar	For single-use devices clogging test is an optional test.	× 61, × 61,	N
<u>`</u> .	Devices designed to be resistant to clogging, shown by a slow increase		N
1 ANC	The specified breathing resistances shall not be exceeded before the required dust load of 833 mg·h/m ³ .	When when	N
7.17.2	Breathing resistance	1. 1.	N
7.17.2.1	Valved particle filtering half masks	1 1	N
7.17.2.2	Valveless particle filtering half masks	and and	N
7.17.3	Penetration of filter materia	1. 1.	N
~ MAC	All types claimed to meet the clogging requirement shall also meet the penetration requirements given in 7.9.2 after the treatment.	TWIC TWIC	N
7.18	Demountable parts		N
10	All demountable parts (if fitted) shall be readily connected and secured, where possible by hand.	No such demountable part	N

8	Testing		
8.1	General	On On	Р
< la	No special measuring devices and methods are specified, commonly used devices and methods shall be used.	Lea, Lea,	Р
8.2	Visual inspection	1 1	Р
~ And	The visual inspection is carried out appropriate by the test house prior to laboratory or practical performance tests.	THAT THAT	P
8.3	Conditioning		Р
8.3.1	Simulated wearing treatment	J. J.	Р
1 lau	A breathing machine is adjusted to 25 cycles/min and 2,0 l/stroke.	25 cycles/min 2,0 l/stroke.	P
One	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
1 an	Exposet masks to the following thermal cycle:	AN AN	Р
	a) for 24 h to a dry atmosphere of (70 \pm 3) °C;		Р
. 6	b) for 24 h to a temperature of (-30 \pm 3) °C;	. ((Р
1 Mr	Allow to return to room temperature for at least 4 h between exposures and prior to subsequent testing.	5h to paid for	P
8.3.4	Flow conditioning		Р
THAC	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.	THAC THAC	P

9	Marking		An	No	An	-ne	
9.1	Packaging	14	10	14	14	14	Р

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Clause	Requirement – Test	Result - Remark	Verdict
. (
1 laur	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	Ρ
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.	Le Le	Р
9.1.3	Classification: FFP1, FFP2, FFP3.	FFP2 NR	Р
9.1.4	The number and year of publication of this European Standard.	Why who	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.	THAC THAC	Ρ
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	Ρ
9.1.8	The packaging of those particle filtering half masks passing the dolomite clogging test shall beadditionally marked with the letter "D".		Ν
9.2	Particle filtering half mask	Ma Ma	Р
1	Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:		Ρ
9.2.1	The name, trademark or other means of identification of the manufacturer or supplier.	Zhejiang Qianye Garment Co., Ltd	Р
9.2.2	Type-identifying marking.	1. 1	Р
9.2.3	The number and year of publication of this European Standard.	THAT THAT	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).	THAC THAC	Ν
9.2.6	Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.		N

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 Clause
 Requirement – Test
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Attachments: Test table

Table 7.9.2	. (Penetration of test aerosol test				P	
Item	Models	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
Sodium chloride t	test 95 l/min	5.6	5.7	5.5	5.6	5.7	5.6
Paraffin oil test 98	5 l/min	5.4	5.6	5.7	5.7	5.6	5.5

Leakage test	2	Р		
Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
90	100	120	110	120
0.3	0.3	0.3	0.3	0.3
30	30	30	30	30
2	2	C 2	C 2	C 2
0.05	0.06	0.07	0.08	0.06
	Sample 1 90 0.3 30 2	Sample 1 Sample 2 90 100 0.3 0.3 30 30 2 2	Sample 1 Sample 2 Sample 3 90 100 120 0.3 0.3 0.3 30 30 30 2 2 2	Sample 1 Sample 2 Sample 3 Sample 4 90 100 120 110 0.3 0.3 0.3 0.3 30 30 30 30 2 2 2 2

Note: Test ark volume is 2m³ Average Leakage ratio is 8%<11%

Calculation formula as below :

 $\frac{t_{IN} + t_{EX}}{\times 100}$ P(%)= tIN

Table 8.9.2	Exhalation re	esistance test		1.	P
Models	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 res	. C.	C P		
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

Conclusion: Maximum Inhalation resistance < 0.7 mbar

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Clause Requirement – Test				Result - I	Verdict		
Ale	Alle	Are	-ne		AC	all C	
3.9.3.2	Inhalation re	esistance test	10	~		Р	
Models	Sample 1	Sample 2	Sam	ole 3	Sample 4	Sample 5	
	95	95	1	95	95	95	
nce (mbar)	2.12	2.14	02	2.16	2.15	2.14	
	Requirement – Te 3.9.3.2 Models	Requirement – Test 3.9.3.2 Inhalation re Models Sample 1 95	EN 149 Requirement – Test 3.9.3.2 Inhalation resistance test Models Sample 1 Sample 2 95 95	EN 149 Requirement – Test 3.9.3.2 Inhalation resistance test Models Sample 1 Sample 2 Samp 95 95 95	EN 149 Requirement – Test Result - Resu	EN 149 Requirement – Test Result - Remark 3.9.3.2 Inhalation resistance test	

Conclusion: Maximum Inhalation resistance < 2.4mbar

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60 0606 50 40 50 60 70 80 40 30 20 10 8 40 50 60 70 80 90100 10 20 30 6 80 2 09 50 40 STALCO 30 20 2 30 Photo 1 Overview

Photo Documentation

End of Test Report -

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