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Test Report

Applicant: Zhongshan Saifute Labor Protective Articles Co., Ltd

Address: No. 4, Xihuan 4th Road, Southern District, Zhongshan, Guangdong, China

The following sample(s) was/were submitted and identified on behalf of the client as:

Product name: LAIANZHI 9108A SERIES CUP SHAPE DISPOSABLE PROTECTIVE

MASK

Model: KP39210
Trade mark: LAIANZHI
Classification: FFP3 NR
Sample quantity: 120 Pcs

Sample Received

Date: Aug. 11, 2020

Testing Period: Aug. 11, 2020~ Aug. 16, 2020

Test Requirement:

According to the requirement of the client, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

Test Result(s): Please refer to the following page(s)

Test Method: Please refer to the following page(s)

viewed by:
The set set set set
te: 2020-08-18



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Summary of assessment*

Clause	Assessment
7.3 Visual inspection	NRq
7.4 Packaging	Pass
7.5 Material	Pass
7.6 Cleaning and disinfecting	N.A.
7.7 Practical performance	Pass
7.8 Finish of parts	Pass
7.9.1 Total inward leakage	Pass
7.9.2 Penetration of filter material	Pass
7.10 Compatibility with skin	Pass
7.11 Flammability	Pass
7.12 Carbon dioxide content of the inhalation air	Pass
7.13 Head harness	Pass
7.14 Field of vision	Pass
7.15 Exhalation valve(s)	N.A.
7.16 Breathing resistance	Pass
7.17 Clogging	N.A.
7.18 Demountable parts	N.A.

Kev

Pass	Requirement satisfied.
NRq	The clauses were not required.
Fail	Requirement not satisfied. Refer to the "Result details" section for more information.
N.A.	Requirement not applicable.

^{*} Assessment relates only to those specimens which were tested and are the subject of this report.



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Test Result

Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements, Testing, Marking (EN 149:2001+A1:2009)

Clause 7.3 Visual inspection

Test Requirement	Results	Comment
Marking and the information supplied by the manufacturer,	The clauses were	NDa
requirements refer to clause 9 and clause 10.	not required.	NRq

Clause 7.4 Packaging

(EN 149:2001+A1:2009 Clause 8.2)

Test Requirement	Results	Comment
Particle filtering half masks shall be offered for sale		10 10
packaged in such a way that they are protected against	Comply	Pass
mechanical damage and contamination before use.	* * *	* *

Clause 7.5 Material

(EN 149:2001+A1:2009, Clause 8.2 & 8.3.1 & 8.3.2)

Test Requirement	Results	Comment
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.	Comply	Pass
After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the facepiece or straps.	Comply	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply	Pass
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply	Pass



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Clause 7.6 Cleaning and Disinfecting

(EN 149:2001+A1:2009, Clause 8.4 & 8.5 & 8.11)

Test Requirement	Results	Comment
If the particle filtering half mask is designed to be re-usable,	F 45 45	D 15
the materials used shall withstand the cleaning and	5 5	5 5
disinfecting agents and procedures to be specified by the	Not applicable	4 4
manufacturer.	(Not designed to	N.A.
With reference to 7.9.2, after cleaning and disinfecting the	be re-usable)	4 5
re-usable particle filtering half mask shall satisfy the	t of ot	of of
penetration requirement of the relevant class.	The The	11 11

Clause 7.7 Practical Performance

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement	Results Sample 11#~12#:	Comment
General:	Sample 11# 12#.	4
a) head harness comfort	2 2 .	5 5
b) security of fastenings	No imperfections	* *
c) field of vision	A A	10 10
d) any other comments reported by the wearer on request.	4 4	6 6
Walking Test:	1 10 10	15 15
The subjects wearing normal working clothes and wearing	£ £ .	5 5
the particle filtering half mask shall walk at a regular rate of	No importantino	* *
6 km/h on a level course. The test shall be continuous,	No imperfections	Con The
without removal of the particle filtering half mask, for a	4 4	6
period of 10 min.	5 5	Pass
Work Simulation Test:	5 5 .	1 433
a) walking on the level with headroom of (1.3 \pm 0.2)m for	t of ot	* *
5min ()	A MA	10 10
b) crawling on the level with headroom of (0.7 \pm 0.05)m for	4 4 .	4 4
5min	5 05 05	0 0
c) filling a small basket (see Figure 1, approximate volume	No imperfections	5 5
= 8 L) with chippings or other suitable material from a	L at at	at at
hopper which stands 1.5 m high and has an opening at the	A D	0 0
bottom to allow the contents to be shovelled out and a	4 4	4 4
further opening at the top where the basket full of chippings is returned.	t to to	to the



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Clause 7.8 Finish of Parts

EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
Parts of the device likely to come into contact with the	No sharp edges or	Door
wearer shall have no sharp edges or burrs.	burrs	Pass

Clause 7.9.1 Total Inward Leakage

(EN 149:2001+A1:2009 Clause 8.5)

Test Requirement	Results	Comment
For particle filtering half masks fitted in accordance with the	D D	0 0
manufacturer's information, at least 46 out of the 50	4 4	4 4 4
individual exercise results (i.e. 10 subjects x 5 exercises) for	- x x	* *
total inward leakage shall be not greater than:	The The	E E
25% for FFP1	4 4	4 6 4
11% for FFP2	Detail refer to	D D
5% for FFP3		Pass
and, in addition, at least 8 out of the 10 individual wearer	Appendix 1	* *
arithmetic means for the total inward leakage shall be not	M M	19 19
greater than:	5 5	4 4
22% for FFP1	- of of	of of
8% for FFP2	The The	EL ZEL
2% for FFP3		

Appendix 1: Summarization of Test Data

Subject	Sample	Condition	Normal Breathing (%)	Head Side/Side (%)	Head Up/Down (%)	Speak Loudly (%)	Normal Breathing (%)	Mean (%)
Huang	1#	A.R.	1.6	1.9	1.8	2.1	1.5	1.78
Zhou	2#	A.R.	1.7	2.0	2.2	2.3	1.6	1.96
Ma	3#	A.R.	1.4	1.8	1.7	2.0	1.6	1.70
Wu	4#	A.R.	1.5	1.9	1.8	2.2	1.4	1.76
Li	5#	A.R.	2.0	2.2	2.4	2.7	2.1	2.28
Wu	6#	T.C.	1.4	1.7	1.9	2.1	1.5	1.72
Zhai	7#	T.C.	1.6	2.1	1.9	2.1	1.7	1.88
Zheng	8#	T.C.	1.5	1.8	1.6	2.0	1.4	1.66
Huang	9#	T.C.	1.7	2.0	2.1	2.4	1.6	1.96
Wu	10#	T.C.	1.8	2.4	2.4	2.6	2.0	2.24



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Facial Dimension:

Subject	Length of Face	Width of Face	Depth of Face	Width of Mouth
Gubject	(mm)	(mm)	(mm)	(mm)
Huang	130	130 140 125		53
Zhou	100	148	125	55
Ma	120	158	110	50
Wu	110	148	121	44
Li	112	146	112	50
Wu	120	154	128	54
Zhai	135	165	125	53
Zheng	106	155	112	54
Huang	130	140	125	53
Wu	112	172	118	55

Clause 7.9.2 Penetration of Filter Material

(EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

4	Test Requirement	L L L	Results	Comment
	of the filter of the particle filequirements of the following		AND AND	AND AND
0 0	Maximum penetration	on of test aerosol	A A	15
. 4. 5	Sodium chloride test	Paraffin oil test	7. 7.	E 5.
Classification	95 L/min	95 L/min	Detail refer to	at at
W 100 1	%	%	Appendix 2	Pass
	max.	max.		1
FFP1	20	20	15 15	15 15
FFP2	6 5 5	6	2 2	5 5 ,
FFP3	A A A	A 1	- x x	* *
W 10 1	TO THE TO S	A TA TA	The state of	The state of



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Appendix 2: Summarization of Test Data

Penetration of filter material

* *	* *	* *	Penetra	tion (%)	Assessment
Aerosol	Condition	Sample No.	Average in 30s after 3 min	Max. during exposure	the state of
4 4	4 4	16#	0.7	T	2 5
OF ST	A.R.	17#	0.7	A 1 A	AT 15
4 4	5 4	18#	0.7	T	3 5
OF ST	15	22#	0.7	A 1 A	AT AT
Sodium chloride test	S.W.	23#	0.8	T	5 5
Chloride test	D 15	24#	0.8	A 1/A	15
4 4	, 4	28#	F	0.9	5 5
A A	M.S. + T.C.	29#	P 1/2	0.8	15 15
4 4		30#	T	0.8	5 5
	D D	13#	0.2	P IN	Pass
4 4	A.R.	14#	0.2	T	2 4
TO ST.	TO ST	15#	0.2	P IP	A TO
7 4 4	7 4	19#	0.4	T	7 7
Paraffin oil test	S.W.	20#	0.4	P IN	AT AT
4 7 7	4 7 4	21#	0.4	LTL	4 4
TO ST.	10 TO	25#	P IN	0.5	A Par
AL	M.S. + T.C.	26#	AL TAL	0.5	4 4
0 0	D TO	27#	E IE	0.9	A TO
4 4	Flow	conditioning: 95.0	L/min	* *	* * *

Clause 7.10 Compatibility with Skin

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
Materials that may come into contact with the wearer's skin	No irritation or any	2, 2,
shall not be known to be likely to cause irritation or any other	other adverse	Pass
adverse effect to health.	effect to health.	0 0



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Clause 7.11 Flammability

(EN 149:2001+A1:2009, Clause 8.6)

Test Requirement	Results	Comment
The material used shall not present a danger for the wearer	2 2	5 5
and shall not be of highly flammable nature when tested, the	Detail refer to	A Door of
particle filtering half mask shall not burn or not to continue on	Appendix 3	Pass
burn for more than 5 s after removal from the flame.	4 4	4 5

Appendix 3: Summarization of Test Data

Flammability

Condition	Sample No.	Result	Assessment	
A.D.	31#	Nonflammable	4 4 .	
A.R.	32#	Nonflammable	A Dunk	
T.C.	33#	Nonflammable Nonflammable	Pass	
T.C.	34#	Nonflammable	4 4	

Clause 7.12 Carbon Dioxide Content of The Inhalation Air

(EN 149:2001+A1:2009, Clause 8.7)

Results	Comment	
Detail refer to	Pass	
	- 4- 4-	

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result	Assessment
2 2	35#	0.52%	5 5 .
A.R.	36#	0.49% Mean value: 0.51%	Pass
W W W	37#	0.52%	TO TO



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Clause 7.13 Head Harness

(EN 149:2001+A1:2009, Clause 8.4 & 8.5)

Test Requirement	Results	Comment
The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.	Comply	4 4 A
The head harness shall be adjustable or self-adjusting and shall be sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.	Comply	Pass

Clause 7.14 Field of Vision

(EN 149:2001+A1:2009, Clause 8.4)

Test Requirement **	Results	Comment
The field of vision is acceptable if determined so in practical	Comply	Door
performance	Comply	Pass

Clause 7.15 Exhalation Valve(s)

(EN 149:2001+A1:2009, Clause 8.2 & 8.9.1 & 8.3.4 & 8.8)

Test Requirement	Results	Comment
a) A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.	No valves.	
b) If an 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 that may be necessary for the particle filtering half mask to comply with 7.9.	No valves.	N.A.
c) Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.	No valves.	A A
d) When the exhalation valve housing is attached to the face blank, it shall withstand axially a tensile force of 10N applied for 10 s.	No valves.	it sit



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Clause 7.16 Breathing Resistance

EN 149:2001+A1:2009, Clause 8.9)

Test Requirement				Results	Comment
The breathing resis	tances apply	2 2	5 5		
filtering half masks a	and shall mee	- + +	4 4		
following table.	ETT &	E E	the the		
I	Maximum p	ermitted resista	ance (mbar)	4 4	2 7 2
Classification	Inhalation		Exhalation	Detail refer to	Pass
5 5	30 L/min	95 L/min	160 L/min	Appendix 5	. 466
FFP1	0.6	2.1	3.0	0 0	15 15
FFP2	0.7	2.4	3.0	5 5	5 5
FFP3	1.0	3.0	3.0	- at at	at at
W W W	19	W W	N N	A P	De la

Appendix 5: Summarization of Test Data

7	2 2	Inhalation	n(mbar)	5	Exhalation	resistance(mbar)	5
Specimen	Condition	At 30	At 95	×	- At	160 L/min	*	*
W IN	AN E	L/min	L/min	Α	В	С	D	×Ε
38#		0.5	1.5	2.8	2.8	2.8	2.8	2.8
39#	A.R.	0.5	1.5	2.8	2.8	2.8	2.8	2.8
40#	7 7	0.5	1.5	2.8	2.8	2.8	2.8	2.8
41#	- *	0.5	1.6	2.7	2.7	_2.7	2.8	2.7
42#	S.W.	0.5	1.6	2.7	2.7	2.7	2.7	2.7
43#	6 6	0.5	1.6	2.7	2.6	2.7	2.7	2.7
44#	4	0.4	1.3	2.5	2.5	2.4	2.5	2.5
45#	T.C.	0.4	1.3	2.5	2.5	2.5	2.5	2.5
46#	- 4	0.5	_ 1.5	2.6	2.6	2.6	2.6	2.6
1		1	/	1	1	1	1	/
1	F.C.	1	/	1	1	1	1	/
1		1	/	1	1	1	1	/

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side



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Clause 7.17 Clogging

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement			Results	Comment
Clause 7.17.2 Breathing resistance Valved particle filtering half masks:			4 4,	2 2
	halation resistances sh	F 15 15	15 15	
FFP1: 4 mbar, FFP2: 5 mbar, FFP3: 7 mbar at 95L/min			Requirement not applicable.	N.A.
continuous flow The exhalation resistance shall not exceed				
3 mbar at 160 L/min continuous flow.				
Valveless particle filtering half masks:				
After clogging the inhalation and exhalation resistances				
shall not exceed: FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5				5 5
mbar at 95L/min continuous flow				* *
Test Requirement			Results	Comment
Clause 7.17.3 Penetration of filter material All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.			t at at	at state
31 31	Maximum penetration of test aerosol		5" 5".	500
Classification	Sodium chloride test 95 L/min	Paraffin oil test 95 L/min	Requirement not applicable.	N.A.
4 4	%	%	аррисавіе.	4 4
of of of	max.	max.	5 05 05	of of
FFP1	20	20	517 517	210
FFP2	6	6	L 1 1	at at
FFP3	P 1 P	0 19 19		D D
4 4	4 4 4	4 4	4 4	4

Clause 7.18 Demountable Parts

(EN 149:2001+A1:2009, Clause 8.2)

Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected No detachable		N.A.
and secured, where possible by hand	part	



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Sample photo(s):



Fig.1



Fig.2



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Fig.3

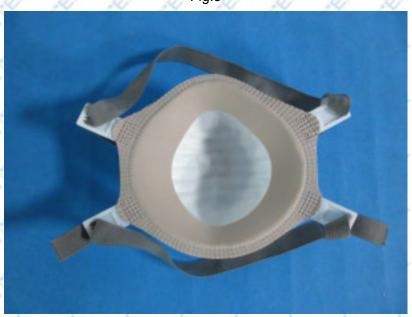


Fig.4

This test report displaces the original report No. S20081102303E, and the original one was invalid since the date of this test report No. S20081102303E released.

****End of Report****

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