

Report No.: S20082702701E



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Test Report

Applicant: Address:

Wenzhou Jiada Technology Co.,Ltd No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan Area, Wenzhou City, Zhejiang Province, China.

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

Product name:	FILTERING HALF MASK
Model:	JD-99
Trade mark:	
Manufacturer:	Wenzhou Jiada Technology Co.,Ltd
Address:	No.401, Building 19th, Rainbow Wisdom Park, Longgang City, Cangnan
	Area, Wenzhou City, Zhejiang Province, China.
Classification:	FFP2 NR
Sample quantity:	120 Pcs 2 2 2 2 2 2 2 2

Sample Received Date: Testing Period:

Aug. 28, 2020

Mark lins

Aug. 28, 2020~ Sep. 02, 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)

Compiled by:

Reviewed by:

Approved by:

Date:

2020-09-09

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Summary of assessment*	x x x x
Clause	Assessment
7.3 Visual inspection	NRq
7.4 Packaging	Pass
7.5 Material	Pass Pass
7.6 Cleaning and disinfecting	N.A.
7.7 Practical performance	Pass A
7.8 Finish of parts	Pass +
7.9.1 Total inward leakage	Pass Pass
7.9.2 Penetration of filter material	Pass
7.10 Compatibility with skin	Pass
7.11 Flammability	Pass Pass
7.12 Carbon dioxide content of the inhalation air	Pass
7.13 Head harness	Pass A
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.

Key	5 5 5 5 5 5 5 5 5 5
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.

the the test the test the test	Uncertainty
Total inward leakage	<u>6.40 %</u>
Penetration of filter material (NaCI)	1.60 %
Penetration of filter material (Paraffin Oil)	1.78 %
Carbon dioxide content of the inhalation air	5.34 %
Breathing resistance (30 L/min)	3.60 %
Breathing resistance (95 L/min)	2.20 %
Breathing resistance (160 L/min)	2.00 %

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		Q Q
packaged in such a way that they are protected against mechanical damage and contamination before use.	Comply	Pass

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	Comply	Pass
is designed to be used.	5 5 5	5 5
After undergoing the conditioning described in 8.3.1 none of	5 5 2	5. 5.
the particle filtering half masks shall have suffered	Comply	Pass
mechanical failure of the facepiece or straps.		A 19
When conditioned in accordance with 8.3.1 and 8.3.2 the	Comply	Pass
particle filtering half mask shall not collapse.	Comply	AT ass
Any material from the filter media released by the air flow	N 5 5 2	S S
through the filter shall not constitute a hazard or nuisance	Comply	Pass
for the wearer.		A A

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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,		4.4
the materials used shall withstand the cleaning and	5 5 .	5 5
disinfecting agents and procedures to be specified by the	Not applicable	t
manufacturer.	(Not designed to	N.A.
With reference to 7.9.2, after cleaning and disinfecting the	be re-usable)	2 4
re-usable particle filtering half mask shall satisfy the	t at at	at at
penetration requirement of the relevant class.	S'S'	N N

Clause 7.7 Practical Performance

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

Test Requirement	Results	Comment
	Sample 11#~12#:	the the
General:		19 19
a) head harness comfort	5 5 4	2 4
b) security of fastenings	No imperfections	at at
c) field of vision	S S .	ST ST
d) any other comments reported by the wearer on request.		
Walking Test:		1 1
The subjects wearing normal working clothes and wearing	5. 5.	2 2
the particle filtering half mask shall walk at a regular rate of	No imperfections	x x
6 km/h on a level course. The test shall be continuous,	No impericetions	N N
without removal of the particle filtering half mask, for a		
period of 10 min.		Pass
Work Simulation Test:	5 5 .	1 435
a) walking on the level with headroom of (1.3 \pm 0.2)m for	tt	t t
5min / / / / / /	N N	No No
b) crawling on the level with headroom of (0.7 \pm 0.05)m for	2 2 4	2 2
5min 5 5		1 1
c) filling a small basket (see Figure 1, approximate volume	No imperfections	5 5
= 8 L) with chippings or other suitable material from a	t at at	at at
hopper which stands 1.5 m high and has an opening at the		Le Le
bottom to allow the contents to be shovelled out and a	4 4	~ ~
further opening at the top where the basket full of chippings	t at at	at at
is returned.	S S	N N

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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	Pass
wearer shall have no sharp edges or burrs.	burrs	Fass

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	4 4	19 19
manufacturer's information, at least 46 out of the 50	2 2 4	5 6 .
individual exercise results (i.e. 10 subjects x 5 exercises) for	t	x x
total inward leakage shall be not greater than:	8 8	8 E
25% for FFP1	2 2 3	
11% for FFP2	Detail and and	15 15
5% for FFP3	Detail refer to	Pass
and, in addition, at least 8 out of the 10 individual wearer	Appendix 1	the the
arithmetic means for the total inward leakage shall be not	A A	19 19
greater than:	5. 5. 4	2 4 4
22% for FFP1	tt	at at
8% for FFP2	S S	N N
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 (%)
t.	t i		(%)	(%)	(%)	(%)	(%)	(70)
Huang	1#	A.R.	4.3	4.6	4.7	4.9	4.4	4.58
Zhou	2#	A.R.	3.7	4.0	4.1	4.3	3.6	3.94
Ма	3#	A.R.	2.8	3.1	3.0	3.3	2.9	3.02
🔨 Wu 🔨	4#	A.R.	3.3 💉	3.6	3.5	3.8	3.1	3.46
Li	5#	A.R.	4.6	4.9	4.8	5.1	4.5	4.78
🖉 Wu 🔏	6#	T.C.	5.1	5.3	5.5	5.8	5.2	5.38
Zhai	7#	T.C.	2.4	2.6	2.7 🔷	3.0	2.6	2.66
Zheng	🖊 8# 📈	Т.C.	3.5	3.8	3.7	4.1	3.4	3.70
Huang	9#	T.C.	4.6 🔨	4.8	4.9 🔨	5.2	4.8	4.86
Wu	10#	T.C.	3.5	3.8	3.9	4.1	3.4	3.74

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Fa	acial Dimension:		t t	* * *	
5	Subject	Length of Face	Width of Face	Depth of Face	Width of Mouth
•	Gubjeet	(mm)	(mm)	(mm)	(mm)
4	Huang	130	140	125	53
5	Zhou	110	148	-125 -	55
1	- Ma	120	158	110 1	50
5	Wu 🔨	110	148	121	44
		112	146	112	50
1	Wu 🖉	120	154	128	54
1	Zhai	135	165	125	53
6	Zheng	116	155	112	54
5	Huang	115	157	118	515
	Wu	112	172	118	55
	17 .07 .07	07 07	01 01	07 07 07	07 07

Clause 7.9.2 Penetration of Filter Material

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

2

2

5

L L	Test Requirement	Results	Comment				
	of the filter of the particle filtering half mask	A A	19 19				
shall meet the re	shall meet the requirements of the following table.						
	Maximum penetration of test aerosol	AT AT	15 15				
5 5 5	Sodium chloride test Paraffin oil test	5. 5. 4	5 4 4				
Classification	95 L/min 95 L/min	Detail refer to	at at				
S 3 3	~ % <u>~</u> % <u>~</u>	Appendix 2	Pass				
	max. max.						
FFP1	20 20 20		15 15				
FFP2		5 5 .	\$ \$.				
FFP3		- * *	t t				
		A N					

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Penetration of filter material

x x	x x	x x	Penetrati	ion (%)	Assessment
Aerosol	Condition	Sample No.	Average in 30s after 3 min	Max. during exposure	
4 4 4	2.4	13#	1.0	F	2 4 4
AT AT	A.R.	14#	1.0		AT AT
4 4 4	5 4	15#	0.9	K	2 4 4
AT AT	E E	19#	0.8		IT IT
Sodium chloride test	S.W.	20#	0.8		
	E E	21#	0.8		I D
	, , , , , , , , , , , , ,	25#		0.9	
A A A	M.S. + T.C.	26#		1.0	
	~ ~ ~ ~	27#	F	0.9	
A A A		16#	0.9		Pass
	A.R.	17#	1.0	F	* *
La La La		18#	0.9		
	* * *	22#	0.7	F	* *
Paraffin oil test	S.W.	23#	0.9		
t t	at at	24#	0.5	at Fat	* *
A LA S		28#		2.9	N N
* *	M.S. + T.C.	29#	at Tat	4.1	t t
N E A		30#		2.7	
at at	Flow c	onditioning: 95.0	L/min	the the	the the

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	5 5	
shall not be known to be likely to cause irritation or any other	other adverse	Pass	
adverse effect to health.	effect to health.	A 15	

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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	5 5 .	5 5
and shall not be of highly flammable nature when tested, the	Detail refer to	A Dave 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.	5. 5.	5 5

Appendix 3: Summarization of Test Data

Flar	nmability			
Condition		Sample No.	nple No. Result	
	2 2	31#	Nonflammable	5 2 .
A.	A.R.	32#	Flammable, burn for no more than 5 s	the state
4		33#-	Flammable, burn for no more than 5 s	Pass
t t	AT.C.	34#	Flammable, burn for no more than 5 s	the the

Clause 7.12 Carbon Dioxide Content of The Inhalation Air

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

Test Requirement	Results	Comment
The carbon dioxide content of the inhalation air (dead	Detail refer to	Pass
space) shall not exceed an average of 1.0 % (by volume)	Appendix 4	F 455

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result	Assessment
2 4 4	35#	0.53%	2 4 4
A.R. /	36#	0.51% Mean value: 0.51%	Pass
N N N	37# 🔨	0.48%	S S

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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	t t t
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	Pass	
performance	Compry	C r ass	

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	5 5	5 5
exhalation valve(s), which shall function correctly in all	No valves.	* *
orientations.	A A	14 AU
b) If an exhalation valve is provided it shall be protected	2 2	< <
against or be resistant to dirt and mechanical damage and	5 5	5 5
may be shrouded or may include any other device that may	No valves.	5 5
be necessary for the particle filtering half mask to comply	the state	1 1.A. 1
with 7.9.	A A	N.A.
c) Exhalation valve(s), if fitted, shall continue to operate	5. 5.	5. 5.
correctly after a continuous exhalation flow of 300 l/min over	No valves.	x x
a period of 30 s. 🔨 🔨 🔨	Nº E	E E
(d) When the exhalation valve housing is attached to the	2 2 .	
face blank, it shall withstand axially a tensile force of 10N	No valves.	15 15
applied for 10 s.	5 5	5 5

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Clause 7.16 Breathing Resistance

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

4 4 4	lest Requiren	nent 🔗		Results	Comment
The breathing resist	ances apply	to valved and	d valveless	5 5	5 5
filtering half masks a	nd shall meet	the requirem	ents as the	- It It	the the
following table.	A 2	9 29	A L	La La	A A
	Maximum pe	ermitted resista	ance (mbar)	Z . Z . L	
Classification	Inhala	ation 🖉	Exhalation	Detail refer to	Pass
5 5	30 L/min	95 L/min	160 L/min	Appendix 5	4 4
FFP1	0.6	2.1	3.0	- 5 5	5 5
FFP2		2.4	3.0	5 5	5 5
FFP3	1.0	3.0	3.0	- the -the -	at at

Appendix 5: Summarization of Test Data

	, pp p c i i di M				01	41 6	17 .07		01
2	Inhalation(mba			n(mbar)	Exhalation resistance(mbar)				
	Specimen	Condition	At 30	At 95	×	At At	160 L/min	A	A
2	× ×	N 8	L/min	L/min	A	💦 В 🟑	С	D	Ě
-	38#		0.2	0.7	1.2	1.2	1.2	1.2	1.2
	39#	A.R.	0.2	0.7	1.2	1.2	1.2	1.2	1.2
Ś	40#	2 2	0.2	0.7	1.2	1.2 🔷	1.2	1.2	1.2
	41#	- 1	0.2	- 0.8	1.1	1.1	1.1	1.1	1.1-
2	42#	S.W.	0.3	0.8	1.1	🔨 1.1 🏑	1.1	1.1	1.1
-	43#	4 4	0.3	0.8	1.1	1.1	1.1	1.1	1.1
	44#		0.2	0.7	1.0	1.0	1.0	1.0	1.0
Ś	45#	-T.C	0.2	0.7	1.0	1.0	1.0	1.0	1.0
	46#	- +	0.2	- 0.7	1.0	1.0	1.0	1.0	1.0
2	/		/	/	/	/	/	/	/
	1	F.C.	/	/	/	/	/	/	/
	/		/	/	/	/	/	/	/

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)

5. 5. 5	Test Requirement		Results	Comment	
Clause 7	17.2 Breathing resista	5 5 .	5 5		
Valved p	particle filtering half mas	t it it	at at		
After clogging the in	halation resistances sh		19 19		
FFP1: 4 mbar, FFF	P2: 5 mbar, FFP3: 7 mb	Requirement not applicable.	2 4		
continuous flow The	exhalation resistance s		N.A.		
3 mbar at	t 160 L/min continuous				
Valveless	particle filtering half ma				
After clogging the i	inhalation and exhalation		15 15		
shall not exceed: F	FP1: 3 mbar, FFP2: 4	5 5 .	\$ 2		
🙏 🔶 mbar a	t 95L/min continuous fl	t t t	t t		
	Test Requirement	Results	Comment		
Clause 7.17	.3 Penetration of filter r				
All types (valved a	and valveless) of particl	e filtering half		15 15	
masks claimed to m	eet the clogging require	ement shall also	5 5 .	5 5	
t t me	eet the requirements.	tt	t t t	x x	
	Maximum penetrat	8 B	8 8		
2 2	Sodium chloride	Paraffin oil test	2 2 .	N.A.	
Classification	test 95 L/min	95 L/min	Requirement not		
	%	%	applicable.	5 5	
x x x	max.	max.	t t t	t t	
FFP1	20 20		No Real	No the	
FFP2	6	6	2 2 1	4 4	
FFP3		6 4 4		15 15	
2 2	2 2 2	2 2	5 5 .	5 5	
· · ·		* *		-	

Clause 7.18 Demountable Parts

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

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



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Sample photo(s):



Fig.1



Fig.2

****End of Report****

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