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Test Report

Applicant:	WENZHOU JIADA TECHNOLOGY CO.,LTD.
Address:	NO.401, BUILDING 19 TH , RAINBOW WISHDOM 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-999
Trade mark:	JIADA
Manufacturer:	WENZHOU JIADA TECHNOLOGY CO., LTD.
Address:	NO.401, BUILDING 19 TH , RAINBOW WISHDOM PARK, LONGGANG CITY,
	CANGNAN AREA, WENZHOU CITY, ZHEJIANG PROVINCE, CHINA
Classification:	FFP3 NR
Sample quantity:	147 Pcs
Sample Received	Jan. 11, 2021
Date:	
Testing Period:	Jan. 11, 2021~ Jan. 17, 2021

Test Requirement:

According to the requirement of the client, the test item(s) of the sample is according to the standard EN 149:2001+A1:2009.

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

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

Mark line

Approved by:

Compiled by:

Date:

2021-01-17

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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	Pass
Кеу	*

Key

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.	

Test	Uncertainty
Total inward leakage	6.40 %
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 subjects in this report.



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	NPa	
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		
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	Comply	Pass
is designed to be used.		
After undergoing the conditioning described in 8.3.1 none of		
the particle filtering half masks shall have suffered	Comply	Pass
mechanical failure of the facepiece or straps.		
When conditioned in accordance with 8.3.1 and 8.3.2 the	Comply	Deee
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	Comply	Pass
for the wearer.		



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

Clause 7.7 Practical Performance

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

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

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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	F 055

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		
manufacturer's information, at least 46 out of the 50		
individual exercise results (i.e. 10 subjects x 5 exercises) for		
total inward leakage shall be not greater than:		
25% for FFP1		
11% for FFP2	Datail rafar to	
5% for FFP3	Detail refer to	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		
greater than:		
22% for FFP1	•	
8% for FFP2		
2% for FFP3		

Appendix 1: Summarization of Test Data

			Normal	Head	Head	Speak	Normal	Mean
Subject	Sample	Condition	Breathing	Side/Side	Up/Down	Loudly	Breathing	
			(%)	(%)	(%)	(%)	(%)	(%)
Zhang	1#	A.R.	1.7	1.8	1.9	2.0	1.6	1.80
Fan	2#	A.R.	1.5	1.6	1.7	1.9	1.4	1.62
Yang	3#	A.R.	1.1	1.2	1.4	1.5	1.2	1.28
Huang	4#	A.R.	1.4	1.6	1.7	1.8	1.5	1.44
Yan	5#	A.R.	1.6	1.7	1.8	1.9	1.5	1.70
Shi	6#	T.C.	0.9	1.1	1.2	1.3	1.0	1.10
Huang	7#	T.C.	1.3	1.4	1.6	1.7	1.4	1.48
Chen	8#	T.C.	1.7	1.8	1.9	2.0	1.6	1.80
Lei	9#	T.C.	1.2	1.3	1.4	1.6	1.3	1.36
Shen	10#	T.C.	1.4	1.6	1.7	1.9	1.5	1.62

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Facial Dimension:

Subject	Length of Face	Width of Face	Depth of Face	Width of Mouth
	(mm)	(mm)	(mm)	(mm)
Zhang	120	175	115	57
Fan	120	155	115	55
Yang	125	165	120	55
Huang	116	187	126	57
Yan	104	163	115	52
Shi	110	144	117	46
Huang	103	136	105	52
Chen	115	135	121	57
Lei	111	137	121	53
Shen	112	138	110	54

Clause 7.9.2 Penetration of Filter Material

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

	Test Requirement		Results	Comment
The penetration of	f the filter of the particle	e filtering half mask		
shall meet the rec	quirements of the follow	ring table.		
	Maximum penetration	n of test aerosol(%)		
Classification	Sodium chloride	Paraffin oil	Detail refer to	
	test 95 L/min	test 95 L/min	Appendix 2	Pass
FFP1	20	20		
FFP2	6	6		
FFP3	1	1		
		V		

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Appendix 2: Summarization of Test Data

Penetration of filter material

	Condition		Penetrat	ion (%)	Assessment	
Aerosol		Sample No.	Average in 30s after 3 min	Max. during exposure		
		13#	0.73	/		
	A.R.	14#	0.74	/		
		15#	0.72	/		
		19#	0.75	/		
Sodium chloride test	S.W.	20#	0.77	/		
chionae test		21#	0.74	/		
	M.S. + T.C.	25#	/	0.79		
		26#	/	0.78		
		27#	/	0.78		
	A.R.	16#	0.45	1	Pass	
		17#	0.45	1		
		18#	0.45	1		
		22#	0.32	/		
Paraffin oil test	S.W.	23#	0.32	/		
1001		24#	0.31	/		
		28#	/	0.46		
	M.S. + T.C.	29#	/	0.46		
		30#	/	0.46		
	Flow rate of test aerosol: 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	
shall not be known to be likely to cause irritation or any other	other adverse	Pass
adverse effect to health.	effect to health.	

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

Appendix 3: Summarization of Test Data

Flammability

Condition	Sample No.	Result	Assessment	
	31#	Flammable, burn for no more		
A.R.	51#	than 5 s		
	32#	Flammable, burn for no more		
	52#	than 5 s	Pass	
T.C.	33#	Nonflammable		
1.0.	34#	Nonflammable		

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	1 435

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result		Assessment
	35#	0.43%	Maan value	
A.R.	36#	0.43%	Mean value:	Pass
	37#	0.47%	0.44%	

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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	Comply	
filtering half mask can be donned and removed easily.	Comply	
The head harness shall be adjustable or self-adjusting and		Pass
shall be sufficiently robust to hold the particle filtering half	Comply	1 455
mask firmly in position and be capable of maintaining total	Comply	
inward leakage requirements for the device.		

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.	Comply	F 855

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 300L/min over a period of 30 s.	No valves.	
(d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s.	No valves.	

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Clause 7.16 Breathing Resistance

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

Test Requirement				Results	Comment	
The breathing resistances apply to valved and valveless						
filtering half masks and shall meet the requirements as the						
following table.						
	Maximum permitted resistance (mbar)					
Classification	Inhalation		Exhalation	Detail refer to	Pass	
	30 L/min	95 L/min	160 L/min	Appendix 5		
FFP1	0.6	2.1	3.0			
FFP2	0.7	2.4	3.0			
FFP3	1.0	3.0	3.0			
			·			

Appendix 5: Summarization of Test Data

		Inhalatio	n(mbar)		Exhalation	resistance((mbar)	
Specimen	Condition	At 30	At 95		At	160 L/min		
		L/min	L/min	A	В	С	D	E
38#		0.61	1.75	2.53	2.53	2.52	2.51	2.51
39#	A.R.	0.62	1.75	2.54	2.53	2.54	2.53	2.53
40#		0.61	1.74	2.53	2.52	2.53	2.52	2.52
41#		0.63	1.75	2.53	2.52	2.53	2.53	2.52
42#	S.W.	0.63	1.76	2.55	2.55	2.54	2.54	2.53
43#		0.62	1.74	2.54	2.53	2.54	2.53	2.53
44#		0.58	1.70	2.46	2.45	2.46	2.45	2.44
45#	T.C.	0.57	1.69	2.45	2.44	2.45	2.44	2.44
46#		0.57	1.68	2.46	2.45	2.46	2.45	2.45
/			/	/	/	/	/	/
/	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)

	Test Requirement	Results	Comment	
Clause	e 7.17.2 Breathing resistance		N.A.	
Valve	d particle filtering half masks:			
After clogging the	inhalation resistances shall not exceed:			
FFP1: 4 mbar, F	FP2: 5 mbar, FFP3: 7 mbar at 95L/min			
continuous flow. T	he exhalation resistance shall not exceed	Requirement not		
3 mbar	at 160 L/min continuous flow.	applicable.	N.A.	
Valvele	ss particle filtering half masks:			
After clogging th	e inhalation and exhalation resistances			
shall not exceed	: FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5			
mbar	at 95L/min continuous flow.			
	Test Requirement	Results	Comment	
Clause 7.	17.3 Penetration of filter material			
All types (valve	d and valveless) of particle filtering half	K		
masks claimed to	meet the clogging requirement shall also			
	meet the requirements.			
	Maximum penetration of test aerosol			
Classification	Sodium chloride Paraffin oil test	Requirement not	N.A.	
	test 95 L/min 95 L/min	applicable.		
	% %	applicable.		
	max. max.			
FFP1	20 20			
FFP2	6 6			
FFP3	1 1			

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	Comply	Pass	
and secured, where possible by hand.	Comply		

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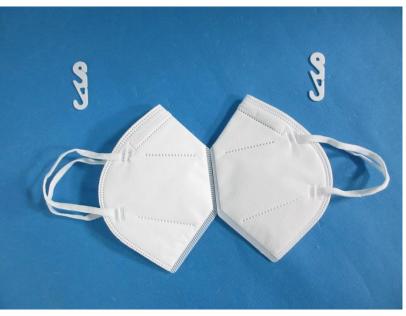


Fig.1





****End of Report****

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