



ATIFICATION G



中国认可 **CNAS L5772**

Test Report

Test Requirement:

According to the requirement of the Module C2 (SPC CE-062_EN M3 PPE) of Applus+, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

Product: Filtering half mask

Report No.: PTC20111805302C-EN01

APPLUS +With ID

20/32302748 number:

Client: Xiamen Miaoxing Technology Co., Ltd

Client Address: 5Floor,No.333-4TongFuRoad,TongAn district,Xiamen,China

Manufacturer: Xiamen Miaoxing Technology Co.,Ltd

Manufacturer Address: 5Floor,No.333-4TongFuRoad,TongAn district,Xiamen,China

Contact: Mr.Liu

Model(s): **WM95**

Classification: FFP2 NR

2020.12.10~2020.12.16 **Date of Tests:**

Signed for and on Behalf of PTC

Prepare by: Checked by:



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Summary of assessment

Clause	Assessment
7.3 Visual inspection	PASS
7.5 Material	PASS
7.9.1 Total inward leakage	PASS
7.9.2 Penetration of filter material	PASS
7.12 Carbon dioxide content of the inhalation air	PASS
7.16 Breathing resistance	PASS

Remark:

PASS: comply with requirement of standard



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Test Result:

Requirement	Test Result	Conclusion
7.3 Visual inspection		
The visual inspection shall also include the marking and the information supplied by the manufacturer.	Comply	Pass
7.5 Material		
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.	No mechanical failure after	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	undergoing the conditioning described in	S No No
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.	8.3.1, No collapse when conditioned in accordance with	Pass
144	8.3.1 and 8.3.2.	

When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.

7.9.1 Total inward leakage

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, 5 % for FFP3 and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than 22 % for FFP1, 8 % for FFP2, 2 % for FFP3.

FFP2, Test	
results are	
shown in Annex	Pass
A Table	
7.9.1-A&B	

7.9.2 Penetration of filter material

The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.

	Sodium chloride test	Paraffin oil test 95
	95 l/min	l/min
FFP1	≤ 20%	≤ 20%
FFP2	≤ 6%	≤ 6%
FFP3	≤ 1%	≤ 1%

FFP2 , Test
results are
shown in Annex
A Table 7.9.2.

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7.12 Carbon dioxide content of the inhalation air

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)

Test results are shown in Annex A Table 7.12.

Pass

7.16 Breathing resistance

	Maximun	n permitted resist	ance (mbar)
Classification	Inhal	lation	Exhalation
	30 l/min	95 l/min	160 l/min
FFP1	0.6	2.1	3.0
FFP2	0.7	2.4	3.0
FFP3	1.0	3.0	3.0

FFP2. Test results are shown in Annex A Table 7.16.

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Annex A: Summarization of Test Data

Table 7.9.1-A: Inward Leakage Test Data

Test specification: EN 149:2001+A1:2009 Clause 8.5

Subject	Sample No.	Condition	Walk (%)	Head Side/side (%)	Head up/down (%)	Talk (%)	Walk (%)	Mean (%)
Lv	1	A.R	4.0	4.3	5.9	6.7	4.8	5.1
é Li	2	A.R	3.6	4.2	4.8	6.2	3.8	4.5
Zhong	3	A.R	4.1	6.2	5.3	7.9	5.3	5.8
Xu	4	A.R	4.7	4.7	4.9	5.9	4.7	5.0
Ма	5	A.R	3.5	4.0	4.5	7.1	3.8	4.6
Chen	6	T.C	3.8	3.0	4.1	5.4	5.0	4.3
Chen	7	T.C	4.0	6.2	4.4	4.8	5.7	5.0
Zhuo	8	T.C	5.5	6.0	6.0	5.6	4.6	5.5
Chen	9	T.C	2.8	4.7	5.9	4.9	4.2	4.5
Zhang	10	T.C	4.7	6.1	6.3	5.0	4.7	5.4

Table 7.9.1-B: Facial dimension

Subject	Face Length	Face Width	Face Depth	Mouth Width		
Lv	113	139	104	53		
9 <u>Z</u> GI Z9	120	135	112	55		
Zhong	Zhong 108		106	56		
Xu	120	150	120	70		
Ма	130	170	130	80		
Chen	Chen 110		90	40		
Chen	115	145	110	50		
Zhuo	103	146	100	50		
Chen 110		145	95	40		
Zhang	144	141	101	54		



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Table 7.9.2: Penetration of filter material

Test specification: EN 149:2001+A1:2009 Clause 8.11

Aerosol	Condition	Sample No.	Penetration (%)	Assessment
the sto sto	40 30 30 30 30	11	2.6	200 Sep. 8
0 0 0	As received	12	4.4	on on
Section Sectio	and the state of the	13	3.1	6 6 6
0, 0, 0,	02 02 02 02 03	14	5.4	20 20
Sodium chloride test	Simulated wearing treatment	15	3.2	8. 8. 8
to to to	to to the to the	16	3.8	40 W 3
6 6 6	30 - 10 - 15 - 15 - 16	17	5.1	
	Mechanical strength + Temperature conditioned	18	4.0	E. E. E
	remperature containoned	19	4.1	Door
	S. S. S. S.	20	0.5	Pass
NO NO NO.	As received	21	0.5	20 20 g
		22	0.5	7 7 7
Service Service	Land Sun Sun Sun Sun	23	1.1	6 6 6
Paraffin oil test	Simulated wearing treatment	24	1.5	, O, O,
No No No I	8, 8, 6, 8,	25	0.9	5. 5. 5
	to to to to to	26	1.3	10 KG 3
	Mechanical strength + Temperature conditioned	27	1.4	
for the the	13/11pordiare conditioned	28	2.4	200 all 9

Table 7.12: Carbon dioxide content of the inhalation air

Test specification: EN 149:2001+A1:2009 Clause 8.7

Condition	Sample No.	Re	esult (%)	Assessment
6, 6,	29	0.03	Manayalya	6, 6, 6
As received	30	0.03	Mean value:	Pass
	31	0.02	0.03	5 20 20 2



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Table 7.16: Breathing resistance (mbar)

Test specification: EN 149:2001+A1:2009 Clause 8.9

6, 6,	Flow Ra	ite	- 0		32			6		33			34				
40 KG	Inhalation	30 I/min	0.34				0.31				0.31						
As received	innaiation	95 I/min		- X	1.15	200	e Pa	×	. Y	1.14	×			- X	1.09		c Fi
6 6	Exhalation	160	Α	В	С	D	E	Α	В	С	D	Е	Α	В	С	D	E
36.36	Exhaution	l/min	1.66	1.67	1.66	1.62	1.62	1.66	1.67	1.66	1.66	1.66	1.64	1.65	1.63	1.61	1.66
	Flow Ra	ite	50		35			2000		36					37		
Simulated	ed July 14: July 1/min		0	. 6	0.27		6,	8,	8,	0.28	8,	6	6	6	0.29		8,
wearing treatment	wearing Innalation 95		Y6 S	6	1.06	Ø.,	10	80	20	1.06	8	8	1	6 9	1.03	ø,	300
ueaunent	P. C. Leg.	160	Α	В	С	D	E	Α	В	С	D	Е	Α	В	С	D	E
8, 6,	Exnalation	Exhalation I/min	1.67	1.61	1.62	1.60	1.57	1.64	1.63	1.63	1.64	1.62	1.59	1.63	1.64	1.64	1.62
40 VC	Flow Ra	ite	Y.	u é	38	φ,	Vo.	8	6/0	39	65	1	1 6	0	40	ď.,	S.
Tomporatura	1.150	30 I/min	b ,	0	0.23	, Q	,0),	JO.	χū	0.23	100	1	5 4	Ū,	0.23	ĮŪ,	χĠ
conditioned	Inhalation	95 I/min	0.87				0.86				0.86						
	Evheletic	160	Α	В	С	D	E	Α	В	С	D	Е	Α	В	С	D	E
X0 X5	Exhalation	l/min	1.51	1.51	1.54	1.51	1.53	1.48	1.51	1.50	1.48	1.87	1.49	1.51	1.49	1.47	1.48
Assessment	4.	X					1	Pa	ss		7	- 3		_ ~			5

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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Test	Uncertainty				
Total inward leakage	3.8%				
Penetration of filter material(NaCl)	3.5%				
Penetration of filter material(Paraffin oil)	4.2%				
Carbon dioxide content of the inhalation air	4.5%				
Breathing resistance(30L/min)	5.2%				
Breathing resistance(95L/min)	5.4%				
Breathing resistance(160)L/min)	6.0%				

Photo(s) of Sample:





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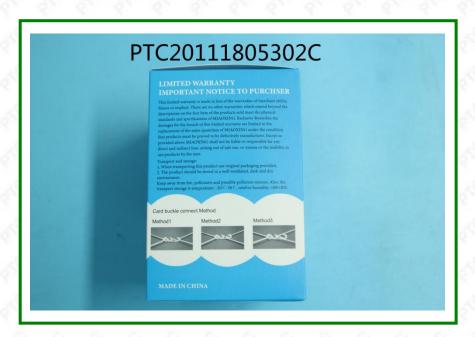






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