

Test Report

Applicant: Xiamen Miaoxing Technology Co.,Ltd
Address: 5Floor,No.333-4TongFuRoad,TongAn district ,Xiamen ,China
The following sample(s) was/were submitted and identified on behalf of the client as:
Product name: Filtering half mask
Model: MV99
Trade mark: MYS
Manufacturer: Xiamen Miaoxing Technology Co.,Ltd
Address: 5Floor,No.333-4TongFuRoad,TongAn district ,Xiamen ,China
Classification: FFP3 NR
Sample quantity: 70 Pcs
C2 Sampling done by
APPLUS+ with ID 25/32303264
number :
Sample Received
Date: Apr. 29, 2025
Testing Period: Apr. 29, 2025~ May. 07, 2025

Test Requirement:

According to the requirement of the Module C2 (SPC CE-062_EN Ed8 PPE) of Applus+, 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)

Compiled by: _____

Reviewed by: _____

Approved by: _____

Date: _____

2025-05-08

Summary of assessment*

Clause	Assessment
7.6 Cleaning and disinfecting	N.A.
7.7 Practical performance	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
7.13 Head harness	Pass
7.14 Field of vision	Pass
7.18 Demountable parts	Pass

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 (NaCl)	1.60 %
Penetration of filter material (Paraffin Oil)	1.78 %

* 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 7.6 Cleaning and Disinfecting

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

Test Requirement	Results	Comment
<p>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.</p> <p>With reference to 7.9.2, after cleaning and disinfecting the re-usable particle filtering half mask shall satisfy the penetration requirement of the relevant class.</p>	<p>Not applicable (Not designed to be re-usable)</p>	<p>N.A.</p>

Clause 7.7 Practical Performance

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

Test Requirement	Results	Comment
	Sample 11#~12#:	
<p>General:</p> <p>a) head harness comfort</p> <p>b) security of fastenings</p> <p>c) field of vision</p> <p>d) any other comments reported by the wearer on request.</p>	<p>No imperfections</p>	<p>Pass</p>
<p>Walking Test:</p> <p>The subjects wearing normal working clothes and wearing the particle filtering half mask shall walk at a regular rate of 6 km/h on a level course. The test shall be continuous, without removal of the particle filtering half mask, for a period of 10 min.</p>	<p>No imperfections</p>	
<p>Work Simulation Test:</p> <p>a) walking on the level with headroom of (1.3 ± 0.2)m for 5min</p> <p>b) crawling on the level with headroom of (0.7 ± 0.05)m for 5min</p> <p>c) filling a small basket (see Figure 1, approximate volume = 8 L) with chippings or other suitable material from a hopper</p>	<p>No imperfections</p>	

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 7.9.1 Total Inward Leakage

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

Test Requirement	Results	Comment
<p>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:</p> <p style="margin-left: 40px;">25% for FFP1 11% for FFP2 5% for FFP3</p> <p>and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than:</p> <p style="margin-left: 40px;">22% for FFP1 8% for FFP2 2% for FFP3</p>	Detail refer to Appendix 1	Pass

Appendix 1: Summarization of Test Data

Subject	Sample	Condition	Normal Breathing (%)	Head Side/Side (%)	Head Up/Down (%)	Speak Loudly (%)	Normal Breathing (%)	Mean (%)
Li	1#	A.R.	0.8	0.9	1.1	1.2	0.9	0.98
He	2#	A.R.	1.1	1.3	1.5	1.6	1.2	1.34
Fang	3#	A.R.	1.2	1.3	1.5	1.5	1.3	1.36
Zhao	4#	A.R.	0.9	1.0	1.2	1.4	1.1	1.12
Ma	5#	A.R.	1.3	1.3	1.5	1.7	1.4	1.44
Chen	6#	T.C.	1.1	1.2	1.3	1.4	1.2	1.24
Wang	7#	T.C.	1.0	1.2	1.3	1.5	1.1	1.22
Wu	8#	T.C.	0.9	1.1	1.2	1.3	0.9	1.08
Fang	9#	T.C.	1.4	1.5	1.7	1.7	1.5	1.56
Yan	10#	T.C.	1.7	1.9	2.0	2.0	1.6	1.84

Facial Dimension:

Subject	Length of Face (mm)	Width of Face (mm)	Depth of Face (mm)	Width of Mouth (mm)
Li	127	145	128	51
He	119	142	126	54
Fang	118	148	119	53
Zhao	121	155	114	52
Ma	111	146	121	50
Chen	114	141	116	56
Wang	125	150	123	55
Wu	133	148	115	54
Fang	113	140	115	51
Yan	115	139	120	54

Clause 7.9.2 Penetration of Filter Material

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

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

Appendix 2: Summarization of Test Data

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)		Assessment
			Average in 30s after 3 min	Max. during exposure	
Sodium chloride test	A.R.	13#	0.01	/	Pass
		14#	0.06	/	
		15#	0.05	/	
	S.W.	19#	0.19	/	
		20#	0.26	/	
		21#	0.22	/	
	M.S. + T.C.	25#	/	0.50	
		26#	/	0.48	
		27#	/	0.49	
Paraffin oil test	A.R.	16#	0.25	/	
		17#	0.30	/	
		18#	0.29	/	
	S.W.	22#	0.44	/	
		23#	0.49	/	
		24#	0.42	/	
	M.S. + T.C.	28#	/	0.85	
		29#	/	0.84	
		30#	/	0.85	
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 shall not be known to be likely to cause irritation or any other adverse effect to health.	No irritation or any other adverse effect to health.	Pass

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 particle filtering half mask shall not burn or not to continue on burn for more than 5 s after removal from the flame.	Detail refer to Appendix 3	Pass

Appendix 3: Summarization of Test Data

Flammability

Condition	Sample No.	Result	Assessment
A.R.	31#	Flammable, burn for no more than 1.62 s.	Pass
	32#	Flammable, burn for no more than 1.71 s.	
T.C.	33#	Flammable, burn for no more than 1.32 s.	
	34#	Flammable, burn for no more than 1.22 s.	

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	Pass
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	

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 performance.	Comply	Pass

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 and secured, where possible by hand.	Comply	Pass

Sample photo(s):



Fig.1



Fig.2



Fig.3



Fig.4

****End of Report****

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