

**Test Report**                    **SL52105243732701TX**  
SHANGHAI XINGMEI PROTECTIVE EQUIPMENT CO.,LTD.  
33 LUDA ROAD, PUDONG NEW AREA, SHANGHAI

**Date: March 25, 2021**

**Page 1 of 5**

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

Sample Description            : (A)Eliecare xmfh95a filter half mask (ce2163)

Sample Color                 : (A)White

Style No.                      : XMHF95A

Manufacturer                : SHANGHAI XINGMEI PROTECTIVE EQUIPMENT CO.,LTD.

Country of Origin            : Shanghai China

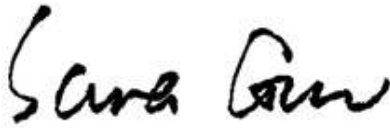
Test Performed              : Selected test(s) as requested by applicant

Sample Receiving Date      : Mar 15, 2021

Testing Period               : Mar 17, 2021 - Mar 25, 2021

Test Result(s)               : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Signed for and on behalf of  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center



Sara Guo (Account Executive)

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Test Result

**Personal Protective Equipment - Respiratory Protective Devices- Filtering Half Masks to Protect against Particles- Requirements, Testing, Marking**

EN 149:2001+A1:2009

**Clause 7.9.2 Penetration of Filter Material**

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

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 1	Meet FFP1, Meet FFP2
Classification	Maximum penetration of test aerosol			
	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min		
	%	%		
	max.	max.		
FFP1	20	20		
FFP2	6	6		
FFP3	1	1		

**Appendix 1: Summarization of Test Data**

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
Sodium chloride test	As received	1	0.431
		2	0.452
		3	0.398
	Simulated wearing treatment	4	0.367
		5	0.459
		6	0.388
	Mechanical strength + Temperature conditioned	7	0.679
		8	0.876
		9	0.735
Paraffin oil test	As received	10	0.576
		11	0.593
		12	0.605
	Simulated wearing treatment	13	0.614
		14	0.623
		15	0.569
	Mechanical strength + Temperature conditioned	16	3.485
		17	2.264
		18	2.873

Flow conditioning: Single filter: 95.0 L/min



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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 particle filtering half masks and shall meet the requirements of the following table.				Detail refer to Appendix 2	Meet FFP1, Meet FFP2, Meet FFP3
Classification	Maximum permitted resistance (mbar)				
	Inhalation		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		

**Appendix 2: Summarization of Test Data**

Breathing resistance (mbar)

As received	Flow rate(l/min)	1					2					3				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
		Inhalation	30	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4
	95	1.6	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.7
Exhalation	160	2.5	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.5	2.5	2.4	2.4	2.4
Simulated wearing treatment	Flow rate(l/min)	4					5					6				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
		Inhalation	30	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4
	95	1.6	1.6	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.6	1.6	1.7	1.7	1.7
Exhalation	160	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.4	2.5	2.5	2.4	2.4	2.4	2.4	2.4
Temperature conditioned	Flow rate(l/min)	7					8					9				
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
		Inhalation	30	0.5	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.4	0.4	0.5	0.5	0.5
	95	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.7	1.6	1.6	1.6	1.7	1.7	1.7	1.7
Exhalation	160	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.4	2.5	2.5	2.5	2.4	2.4	2.4	2.4

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

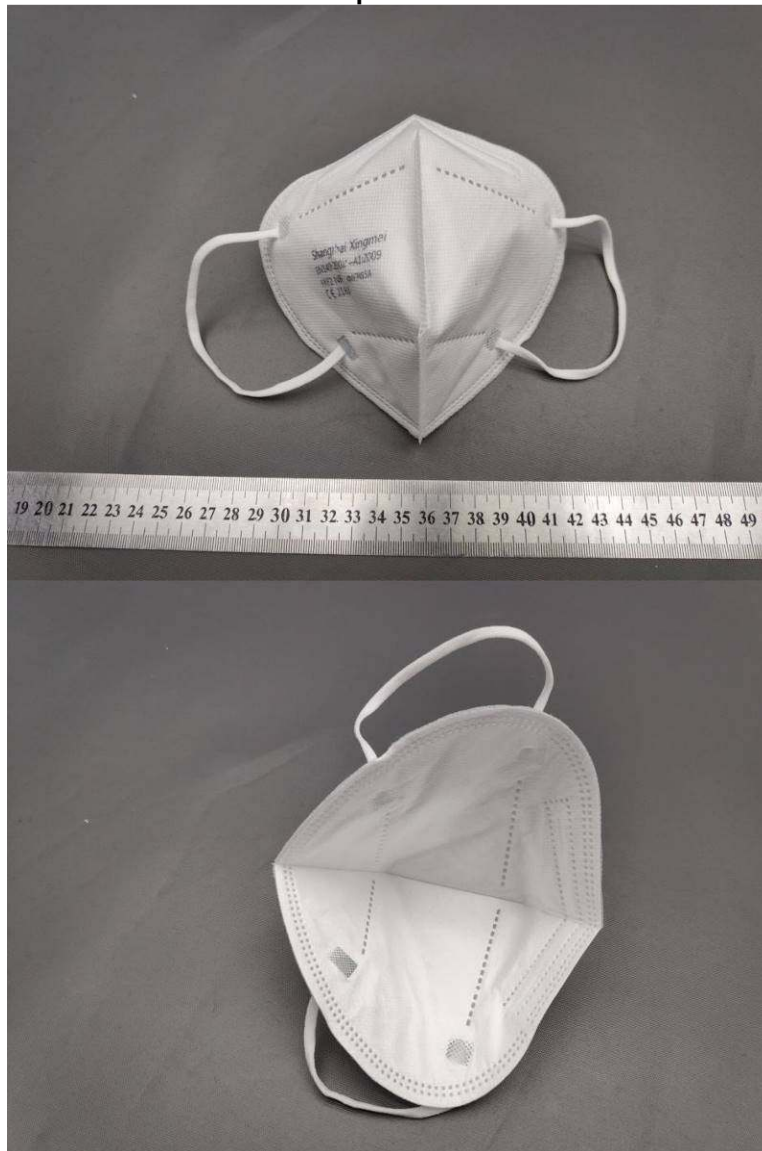


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Sample Photo



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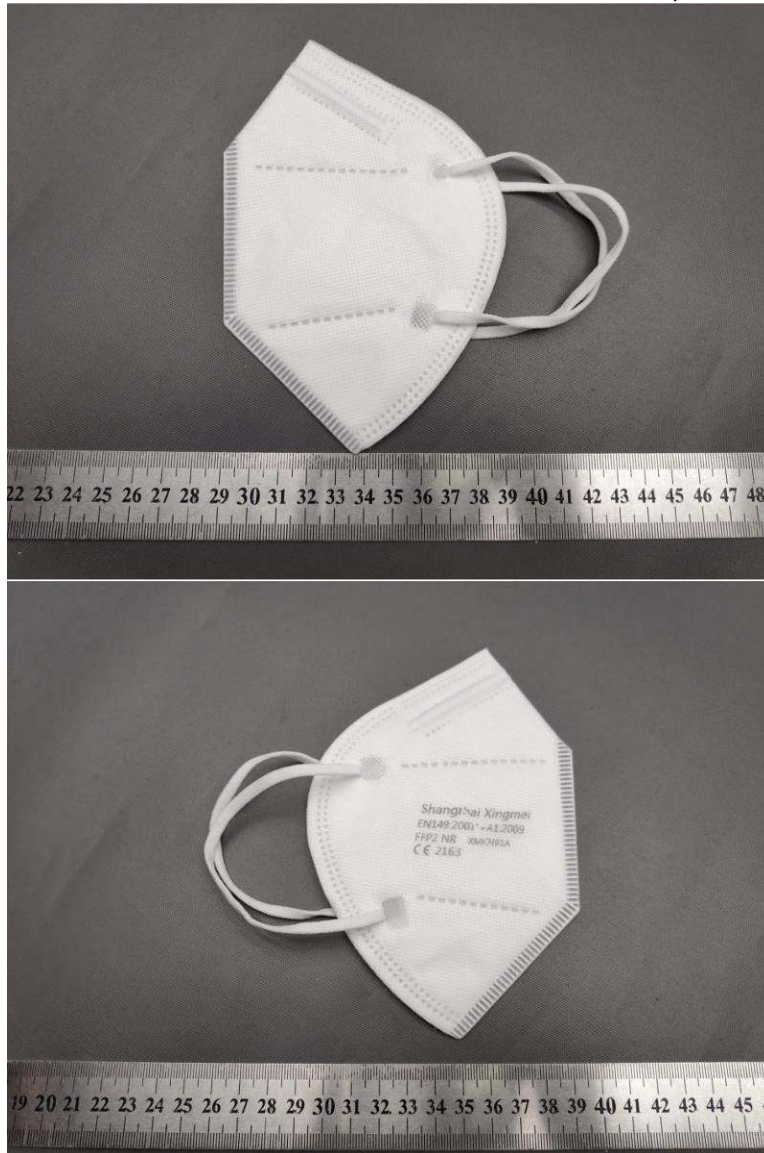
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