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检验检测报告

TEST REPORT



STFWT202018721

Product Name	Filter half mask
Trust Unit	Shanghai Xingmei protective equipment Co.,Ltd
Manufacturer	Shanghai Xingmei protective equipment Co.,Ltd
Test Category	Entrusted Inspection



江苏省特种安全防护产品质量监督检验中心
JIANGSU QUALITY SUPERVISION AND INSPECTION CENTER FOR SPECIAL SAFETY PROTECTION PRODUCTS



Test Report

STFWT202018721

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Product Name	Filter half mask	Specification Type	XMFH95A
		Trademark	---
Trust Unit	Shanghai Xingmei protective equipment Co.,Ltd	Tel.	17302111260
Manufacturer	Shanghai Xingmei protective equipment Co.,Ltd	Sample Grade	FFP2
Sample Quantity	110 pcs	Sample Receiving Date	2020-09-02
Test Category	Entrusted inspection	Batch No. / Article No	---
Samples Conditions	Meet the testing requirements		
Document and Decide Accordance	EN 149: 2001+A1: 2009 《Respiratory protective devices -Filtering half masks to protect against particles-Requirements, testing, marking》		
Test Conclusion	<p>The samples were tested, the items tested meet the requirements of EN 149:2001+A1:2009 standard for FFP2 level.</p> <p style="text-align: right;">Signature Date: 2020-09-24</p>		
Remarks	<p>The head harness of the mask provided by the applicant is ear hanging. Compatibility with skin is not recognized by the center. The test data are only for reference. The sample is not marked for reuse (NR) and does not require testing for blocking performance. The test conclusion of this report is only for the items inspected and does not mean that the uninspected items or functions meet the requirements. The results apply to the sample as received.</p>		



Approver

Examiner

Major tester



7.3 Visual inspection**N/R**

The visual inspection shall include the marking and information supplied by the manufacturer.

7.4 Package**Pass**

Particle filtering half masks shall be offered for sale packaged in such a way that they are protected against mechanical damage and contamination before use.

7.5 Material**Pass¹**

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.

Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.

After undergoing the conditioning described in 8.3.1 none of the particle filtering half masks shall have suffered mechanical failure of the face piece or straps.

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

Note1: Refer to Annex A for test data.

7.6 Cleaning and disinfecting**N/A²**

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.

Note2: Non-reusable respirator.

7.7 Practical performance**Pass³**

The particle filtering half mask shall undergo practical performance tests under realistic conditions.

Note3: Refer to Annex A for test data.

7.8 Finish of parts**Pass**

Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.



7.9.1 Total inward leakage**Pass⁴**

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×5 exercises) for total inward leakage shall be not greater than:

25% for FFP1, 11% for FFP2, 5% for FFP3 .

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.

Note4: Refer to Annex A for test data.

Subject facial dimensions:				
Subject	Face Length (mm)	Face Width (mm)	Face Depth (mm)	Mouth Width (mm)
YS	115	159	115	48
ZJ	118	165	118	51
WL	117	157	113	49
LQM	98	141	101	53
ZYS	99	147	107	47
WP	119	169	120	55
YYW	112	151	115	56
CYW	105	148	108	51
DX	113	162	116	57
DHJ	103	149	105	56

7.9.2 Penetration of filter material**Pass⁵**

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

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

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Note5: Refer to Annex A for test data.

Pass⁶**7.10 Compatibility with skin**

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.

Note6: Refer to Annex A for test data.



7.11 Flammability**Pass⁷**

When tested, the particle filtering half mask shall not burn or not to continue to burn for more than 5s after removal from the flame.

Note7: Refer to Annex A for test data.

7.12 Carbon dioxide content of the inhalation air**Pass⁸**

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1.0 % (by volume).

Note8: Refer to Annex A for test data.

7.13 Head harness**Pass⁹**

The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.

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.

Note9: Refer to Annex A for test data.

7.14 Field of vision**Pass¹⁰**

The field of vision is acceptable if determined so in practical performance tests.

Note10: Refer to Annex A for test data.

7.15 Exhalation valve**N/A¹¹**

A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.

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.

Exhalation valve(s), if fitted, shall continue to operate correctly after a continuous exhalation flow of 300 l/min over a period of 30 s.

When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.

Note11: Valve-less respirator.

7.16 Breathing resistance**Pass¹²**

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

Note12: Refer to Annex A for test data.



7.17 CloggingN/A¹³**7.17.2 Breathing resistance**N/A¹³

Valved particle filtering half masks:

After clogging the inhalation resistances shall not exceed:

FFP1: 4 mbar, FFP2:5 mbar, FFP3: 7 mbar at 95L/min continuous flow

The exhalation resistance shall not exceed 3 mbar at 160 L/min continuous flow

Valveless particle filtering half masks

After clogging the inhalation and exhalation resistances shall not exceed:

FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow

7.17.3 Penetration of filter materialN/A¹³

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

Note13: Non-reusable respirator.

7.18 Demountable partsN/A¹⁴

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand

Note14: No demountable parts.

9 Marking

N/R

9.1 Packaging

The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.

9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.

9.1.2 Type-identifying marking.

9.1.3 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.

9.1.4 The number and year of publication of this European Standard.



9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.

9.1.6 The sentence 'see information supplied by the manufacturer', at least in the official language(s) of the country of destination, or by using the pictogram as shown in Figure 12b.

9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d

9.1.8 The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". This letter shall follow the classification marking preceded by a single space.

9.2 Particle filtering half mask

Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:

9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.

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9.2.2 Type-identifying marking.

9.2.3 The number and year of publication of this European Standard.

9.2.4 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only.

Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable.

Example: FFP2 R D.

9.2.5 If appropriate the letter D (dolomite) in accordance with clogging performance.

This letter shall follow the classification marking preceded by a single space

9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.

10 Information to be supplied by the manufacturer

N/R

10.1 Information supplied by the manufacturer shall accompany every smallest commercial available package.

10.2 Information supplied by the manufacturer shall be at least in the official language(s) of the country of destination.



10.3 The information supplied by the manufacturer shall contain all information necessary for trained and qualified persons on

- application/limitations;
- the meaning of any colour coding;
- checks prior to use;
- donning, fitting;
- use;
- maintenance (e.g. cleaning, disinfecting), if applicable;
- storage;
- the meaning of any symbols/pictograms used of the equipment.

10.4 The information shall be clear and comprehensible. If helpful, illustrations, part numbers, marking shall be added.

10.5 Warning shall be given against problems likely to be encountered, for example:

- fit of particle filtering half mask (check prior to use);
- it is unlikely that the requirements for leakage will be achieved if facial hair passes under the face seal;
- air quality (contaminants, oxygen deficiency);
- use of equipment in explosive atmosphere.

10.6 The information shall provide recommendations as to when the particle filtering half mask shall be discarded.

10.7 For devices marked "NR", a warning shall be given that the particle filtering half mask shall not be used for more than one shift.



Annex A: Summarization of Test Data

Clause		Result								Assessment		
7.5	Material	Simulated wearing treatment	1 [#]	No mechanical failure						Pass		
			2 [#]	No mechanical failure								
			3 [#]	No mechanical failure								
		Temperature conditioned	4 [#]	No mechanical failure								
			5 [#]	No mechanical failure								
			6 [#]	No mechanical failure								
7.7	Practical performance	As received	7 [#]	No mechanical failure						Pass		
			8 [#]	No mechanical failure								
7.9.1	Total inward leakage (%)	As received	Sample No	Walk	Head (side/side)	Head (up/down)	Talk	Walk	Mean	Pass		
			9 [#]	5.8	6.1	6.9	6.8	5.4	6.2			
			10 [#]	5.6	6.1	6.4	5.7	5.6	5.9			
			11 [#]	5.9	6.8	7.6	6.6	5.8	6.5			
			12 [#]	6.5	6.7	7.5	6.7	6.3	6.7			
			13 [#]	6.1	12.2	12.8	12.2	5.3	9.7			
		Temperature conditioned	14 [#]	6.1	7.0	7.4	7.2	5.8	6.7			
			15 [#]	6.4	7.0	7.1	6.1	5.6	6.4			
			16 [#]	6.2	6.4	7.1	6.6	5.6	6.4			
			17 [#]	5.9	6.1	6.4	5.6	5.7	5.9			
			18 [#]	6.5	6.5	6.6	5.6	5.8	6.2			
		Individual exercise result :			47 out of the 50 individual exercise results ≤ 11							
		Individual wearer arithmetic means :			9 individual wearer arithmetic means ≤ 8							



Clause		Result		Assessment		
7.9.2	Penetration of filter material/%	Sodium chloride test(95L/min)		Pass		
		As received	19 [#]		0.07	
			20 [#]		0.13	
			21 [#]		0.11	
		Simulated wearing treatment	22 [#]		0.19	
			23 [#]		0.24	
			24 [#]		0.28	
		M.S.+T.C.	25 [#]		0.32	
			26 [#]		0.39	
			27 [#]		0.45	
					Paraffin oil test(95L/min)	
		As received	28 [#]		0.75	
			29 [#]		0.81	
			30 [#]		0.89	
		Simulated wearing treatment	31 [#]		0.97	
			32 [#]		1.14	
			33 [#]		1.27	
		M.S.+T.C.	34 [#]		1.43	
35 [#]	1.78					
36 [#]	1.55					
7.10	Compatibility with skin	As received	9 [#]	No irritation or any other adverse effect to health	Pass	
			10 [#]	No irritation or any other adverse effect to health		
			11 [#]	No irritation or any other adverse effect to health		
			12 [#]	No irritation or any other adverse effect to health		
			13 [#]	No irritation or any other adverse effect to health		
		Temperature conditioned	14 [#]	No irritation or any other adverse effect to health		
			15 [#]	No irritation or any other adverse effect to health		
			16 [#]	No irritation or any other adverse effect to health		
			17 [#]	No irritation or any other adverse effect to health		
			18 [#]	No irritation or any other adverse effect to health		
7.11	Flammability	As received	37 [#]	burn for 0.6 s	Pass	
			38 [#]	burn for 0.5 s		
		Temperature conditioned	39 [#]	burn for 0.9 s		
			40 [#]	burn for 1.2 s		



Clause		Result				Assessment
7.12	Carbon dioxide content of the inhalation air/%	As received				Pass
		41 [#]	42 [#]	43 [#]	Mean value	
		0.52	0.54	0.51	0.52	
7.13	Head hardness	As received				Pass
		9 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		10 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		11 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		12 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		13 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		Temperature conditioned				
		14 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		15 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		16 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		17 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
		18 [#]	Head harness can be donned and removed easily, adjustable and have sufficiently robust to hold the particle filtering half mask firmly.			
7.14	Field of vision	As received	7 [#]	Passed the practical performance tests		Pass
			8 [#]	Passed the practical performance tests		



Clause		Result			Assessment		
		Inhalation		Exhalation			
		30 L/min	95 L/min	160 L/min			
		As received					
7.16	Breathing resistance (mbar)	41 [#]	A	0.4	1.3	1.8	Pass
			B	0.4	1.3	1.8	
			C	0.4	1.3	1.8	
			D	0.4	1.4	1.9	
			E	0.4	1.3	1.8	
		42 [#]	A	0.4	1.3	1.8	
			B	0.4	1.4	1.8	
			C	0.4	1.3	1.9	
			D	0.4	1.3	1.8	
			E	0.4	1.3	1.8	
		43 [#]	A	0.4	1.3	1.8	
			B	0.4	1.3	1.8	
			C	0.4	1.3	1.9	
			D	0.4	1.4	1.8	
			E	0.4	1.3	1.8	
		Simulated wearing treatment					
		44 [#]	A	0.4	1.3	1.8	
			B	0.4	1.4	1.8	
			C	0.4	1.3	1.8	
			D	0.4	1.3	1.9	
			E	0.4	1.3	1.8	
		45 [#]	A	0.4	1.3	1.8	
			B	0.4	1.3	1.9	
			C	0.4	1.4	1.8	
			D	0.4	1.3	1.8	
E	0.4		1.3	1.8			
46 [#]	A	0.4	1.3	1.8			
	B	0.4	1.3	1.8			
	C	0.4	1.3	1.8			
	D	0.4	1.4	1.8			
	E	0.4	1.3	1.9			



Clause		Result				Assessment			
7.16	Breathing resistance	Inhalation		Exhalation		Pass			
		30 L/min	95 L/min	160 L/min					
		Temperature conditioned							
		47#	A	0.4	1.3		1.9		
			B	0.4	1.4		1.8		
			C	0.4	1.3		1.8		
			D	0.4	1.3		1.8		
			E	0.4	1.3		1.8		
		48#	A	0.4	1.3		1.8		
			B	0.4	1.3		1.9		
			C	0.4	1.4		1.8		
			D	0.4	1.3		1.8		
			E	0.4	1.3		1.8		
		49#	A	0.4	1.3		1.8		
			B	0.4	1.3		1.8		
			C	0.4	1.3		1.8		
			D	0.4	1.4		1.9		
			E	0.4	1.3		1.8		
		7.16	Breathing resistance	A: facing directly ahead B: facing vertically upwards C: facing vertically downwards D: lying on the left side E: lying on the right side					
		Remarks : M.S.: Mechanical strength; T.C.: Temperature conditioning; N/R: The clauses were not requested; N/A: Not applicable;							

Original Sample



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 ===== End of Report =====
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