



Test ReportSL52025245806701TXDate: June 12,2020Page 1 of 9ANHUI HUAGUOTANG BIOTECHNOLOGY CO., LTD.EAST OF XIANWENG ROAD, SOUTH OF HEHUAN ROAD, BOWU INDUSTRIAL PARK, BOZHOU HIGH<br/>TECH ZONE, BOZHOU, ANHUI, 236800, CHINA

The following sample(s) was/were submitted and identified on behalf of the client as: Sample Description : (A)FACE MASK Non medicine

SGS Internal Ref No.	:	SHHL2004511973MD
Style No.	:	HGTN952
Sample Color	:	(A)WHITE

Test Performed	:	Selected test(s) as requested by applicant
Sample Receiving Date Testing Period		Apr 24, 2020 Apr 26, 2020 - Jun 12, 2020
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).

#### Conclusion:

Sample No.	Recommendation Level
(A)	FFP2 NR

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**

#### Respiratory Protective Devices — Filtering Half Masks to Protect against Particles — Requirements, Testing, Marking

(EN 149:2001+A1:2009)

### 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 mechanical damage and contamination before use.	Comply	Pass

## 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 is designed to be used.	signed to be used.			
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.	Comply	Pass		
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	Comply			
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	Comply			

## **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 manufacturer. 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.	Not applicable (Not designed to be re-usable)	N.A.

## Clause 7.7 Practical Performance#

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

Test Requirement	Results	Comment
The particle filtering half mask shall undergo practical performance tests under realistic conditions. These general tests serve the purpose of checking the equipment for imperfections that cannot be determined by the tests described elsewhere in this standard.		Pass



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Pass

#### Clause 7.8 Finish of Parts (EN 149:2001+A1:2009, Clause 8.2)

Results Comment **Test Requirement** Parts of the device likely to come into contact with the wearer shall have no No sharp edges sharp edges or burrs. or burrs

## Clause 7.9.1 Total Inward Leakage#

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

Test Requirement	Results	Comment
The total inward leakage consists of three components: face seal leakage, exhalation value leakage(if exhalation value fitted) and filter penetration. 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	Detail refer to Appendix 1	Meet FFP1 Meet FFP2

## Appendix 1: Summarization of Test Data

#### Inward Leakage Test Data

Subject	Sample	Condition	Walk(%)	Head	Head	Talk(%)	Walk(%)	Mean(%)
	No.			Side/side(%)	up/down(%)			
1	1	A.R.	6.1	7.0	7.1	6.9	6.5	6.7
2	2	A.R.	6.8	7.4	7.4	7.5	7.0	7.2
3	3	A.R.	5.7	6.4	6.7	6.6	6.0	6.3
4	4	A.R.	6.0	7.0	7.3	7.2	6.5	6.8
5	5	A.R.	5.6	6.5	6.8	6.5	6.1	6.3
6	6	T.C.	6.5	7.3	7.6	7.6	6.9	7.2
7	7	T.C.	6.2	6.8	7.0	6.7	6.2	6.6
8	8	T.C.	6.9	7.8	7.9	7.5	7.1	7.4
9	9	T.C.	6.0	6.7	6.8	6.9	6.3	6.5
10	10	T.C.	6.3	7.2	6.9	7.0	6.5	6.8

## Facial Dimension

Subject	Face length	Face Width	Face Depth	Mouth Width
1	120	130	109	59
2	122	140	115	65
3	119	160	139	55
4	112	122	119	63
5	110	130	118	60
6	115	119	110	59
7	112	123	113	55
8	103	130	100	50



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9	118	139	130	63
10	120	135	125	50

## Clause 7.9.2 Penetration of Filter Material#

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

	Test Requirement		Results	Comment
requirements of	of the filter of the particle filter the following table.			
Classifica tion	Maximum penetration Sodium chloride test 95 I/min % max.	Paraffin oil test 95 l/min % max.	Detail refer to Appendix 2	Meet FFP1 Meet FFP2
FFP1	20	20		
FFP2	6	6		
FFP3	1	1		

## Appendix 2: Summarization of Test Data

Penetration of filter material

Aerosol	Condition	Sample No.	Penetration (%)
		1	0.2
	As received	2	0.3
Sodium chloride test		3	0.2
		4	0.2
	Simulated wearing treatment	5	0.2
		6	0.3
	Machanical strength L Temperature	7	1.2
	Mechanical strength +Temperature conditioned	8	1.2
	conditioned	9	1.3
		10	1.1
	As received	11	1.0
		12	1.1
		13	1.2
Paraffin oil test	Simulated wearing treatment	14	1.1
		15	1.0
	Machanical strongth . To managet up	16	2.8
	Mechanical strength +Temperature conditioned	17	2.9
	conditioned	18	2.8
	Flow conditioning : Single fil	ter: 95.0 L/min	



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## 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 healt		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 to 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
	1	Burning time: 0.1s
As received	2	Burning time: 0.1s
Tomporature conditioned	3	Burning time: 0.1s
Temperature conditioned	4	Burning time: 0.1s

## 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 space) shall not exceed an average of 1,0 % (by volume)	Detail refer to Appendix 4	Pass

## Appendix 4: Summarization of Test Data

## Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Res	Result					
	1	0.6650%						
As received	2	0.6660%	Mean value: 0.67%					
	3	0.6670%						



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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 filtering half mask can be donned and removed easily.	Comply	
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	Pass

## 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 tests.	Comply	Pass		

## 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.	Not applicable due to No exhalation valve	
(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.	Not applicable due to No exhalation valve	N.A.
(c) 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.	Not applicable due to No exhalation valve	N.A.
(d) When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10N applied for 10 s.	Not applicable due to No exhalation valve	



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# Clause 7.16 Breathing Resistance#

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

	Tes	t Requirement			Results	Comment
The penetration requirements of		et the				
Classification	Maximu	um permitted resist			Meet FFP1	
	Inhalation Exhalation				Detail refer to	Meet FFP2
	30 l/min	95 l/min			Appendix 5	Meet FFP3
FFP1	0.6	2.1	3.0			
FFP2	0.7	2.4	3.0	1		
FFP3	1.0	3.0	3.0	1		
				-		

## Appendix 5: Summarization of Test Data

Breathing resistance (mbar)

	Flow rate				1					2			3				
			Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Е
As received	Inhalation	30 l/min	0.3	0.3	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3	0.3	0.3
	Innalation	95 l/min	0.8	0.9	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.8
	Exhalation	160 l/min	1.3	1.2	1.3	1.4	1.3	1.3	1.3	1.3	1.4	1.3	1.3	1.4	1.3	1.3	1.3
	<b>F</b> laws			4 5						6							
Simulated	Flow rate	Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Е	
wearing	Inhalation	30 l/min	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.2
treatment		95 l/min	0.8	0.8	0.9	0.9	0.8	0.8	0.8	0.9	0.9	0.9	0.8	0.8	0.8	0.9	0.8
	Exhalation	160 l/min	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.3
			7				8				9						
Tomporatura	Flow	ale	Α	В	С	D	E	Α	В	С	D	E	Α	В	С	D	E
Temperature conditioned	Inholotion	30 l/min	0.2	0.2	0.2	0.3	0.3	0.2	0.3	0.2	0.2	0.3	0.3	0.2	0.2	0.2	0.3
conditioned	Inhalation	95 l/min	0.8	0.8	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.8
	Exhalation	160 l/min	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.3	1.3	1.3	1.3	1.3	1.3	1.4	1.4

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## Clause 7.17 Clogging

(EN 149:2001+A1:2009, Clause 8.9 & 8.10)

Test Requirement			Results	Comment
Clause 7.17.2 Breathing resistance   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		Optional for single shift device only	N.A.	
<u>Clause 7.17.3 Penetration of filter material</u> All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.				
Classificatio	Classificatio Maximum penetration of test aerosol			
n	Sodium chloride test 95 l/min	Deveffine all teat OF l/min	Optional for single	
	Source rest 35 minin	Paraffin oil test 95 l/min		ΝΔ
	%	%	shift device only	N.A.
				N.A.
FFP1	%	%		N.A.
	% max.	% max.		N.A.

## 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	No demountable parts	N.A

Test	Uncertainty
Total inward leakage	2.98%
Penetration of filter material	1.00%
Flammability	1.00%
Carbon dioxide content of the inhalation air	0.93%
Breathing resistance	1.90%

# This test standard is not within the accredited scope in SGS Shanghai testing centre, it is carried out by external laboratory accredited by CNAS (China National Accreditation Service for Conformity Assessment) L10118.



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Sample Photo



\*\*\*End of Report\*\*\*



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