



#### Test Report SL52025244621801TX

ZHUHAI HEALTH PRO MEDICAL EQUIPMENT CO., LTD WEST NO.7, 3TH FLOOR, NO.1 JINJI ROAD, QIANSHAN TOWN, XIANGZHOU DISTRICT, ZHUHAI CITY, GUANGDONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the client as: Sample Description (A)Filtering facepiece respirator : SGS Internal Ref No. 1 GZES2004016415ME Sample Color (A)White ÷ Manufacturer ZHUHAI HEALTH PRO MEDICAL EQUIPMENT CO., LTD • **Test Performed** 2 Selected test(s) as requested by applicant Sample Receiving Date 1 Apr 12, 2020/ May 29, 2020 Confirm information **Testing Period** Apr 13, 2020 - May 29, 2020 Test Result(s) Unless otherwise stated the results shown in this test report refer only to the 2 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 Report** 

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

### 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.	No imperfections	Pass



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### Clause 7.8 Finish of Parts

(EN 149:2001+A1:2009, Clause 8.2)

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

### 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	Pass

### Appendix 1: Summarization of Test Data

#### Inward Leakage Test Data

	$\frac{1}{10000000000000000000000000000000000$							
Subject	Sample	Condition	Walk(%)	Head	Head	Talk(%)	Walk(%)	Mean(%)
	No.			Side/side(%)	up/down(%)			
Yi	1	A.R.	7.96	8.37	8.45	8.06	8.41	8.2
Gong	2	A.R.	6.76	7.11	6.83	6.90	7.13	6.9
Yu	3	A.R.	6.47	6.56	6.77	6.91	6.78	6.7
Hu	4	A.R.	6.84	7.38	7.20	7.26	7.25	7.2
Xu	5	A.R.	6.34	6.59	6.69	6.70	6.58	6.6
Deng	6	T.C.	6.83	7.17	7.16	7.06	6.84	7.0
Zhang	7	T.C.	7.04	7.31	7.27	7.22	7.36	7.2
Zhi	8	T.C.	6.34	6.42	6.53	6.56	6.52	6.5
Fang	9	T.C.	5.53	6.04	5.62	5.82	5.72	5.7
Lv	10	T.C.	6.97	7.30	7.06	7.17	7.30	7.2
All 50 ind	All 50 individual exercise results were not greater than 11 %						Pass	
9 out of 1	0 individual	wearer arith	ter than 8 %					

#### **Facial Dimension**

Subject	Face length	Face Width	Face Depth	Mouth Width
Yi	120	130	109	59
Gong	122	140	115	65
Yu	119	160	139	55
Hu	112	122	119	63
Xu	110	130	118	60
Deng	115	119	110	59
Zhang	112	123	113	55
Liu	103	130	100	50
Zhi	118	139	130	63



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Fang	115	129	120	50
Chen	116	150	132	56
Lv	110	121	110	53

## Clause 7.9.2 Penetration of Filter Material#

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

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

### Appendix 2: Summarization of Test Data

Penetration of filter material

Aerosol	Condition	(%)					
		11	0.174				
	As received	12 0.251					
- Sodium chloride test		13	0.307				
		14	0.598				
	Simulated wearing treatment	15	0.672				
		16	0.516				
	Machanical attendets. Tomperature	17 0.779					
	Mechanical strength + Temperature	18	0.848				
	conditioned	19	0.712				
		20	2.45	Pass			
	As received	21	2.51	1 400			
		22	2.75				
		23	2.92				
Paraffin oil test	Simulated wearing treatment	24	2.89				
		25	3.17				
	Marchanical strength Tennegauting	26	3.17				
	Mechanical strength + Temperature	27	3.27				
	conditioned	28	3.41				



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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 health.	No irritation or any other adverse	Pass
	effect to health	1 400

#### 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	Assessment
As resolved	29	Burn for 1 s	
As received	30	Burn for 1 s	Pass
Temperature	31	Burn for 1 s	Fass
conditioned	32	Burn for 1 s	

### 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.	Resu	Assessment	
	33	0.42%		
As received	34	0.40%	Mean value 0.4%	Pass
	35	0.40%		

#### 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



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## 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
tests.		Fass

### 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.	ation valve is provided it shall be protected against or be t and mechanical damage and may be shrouded or may her device that may be necessary for the particle filtering half		
(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		
(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		

## Clause 7.16 Breathing Resistance#

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

Test Requirement					Results	Comment	
The penetration requirements of t							
Classification	Maximu						
	Inhalation Exhalation					Pass	
	30 l/min	95 l/min	160 l/min		Appendix 5	Appendix 5	1 400
FFP1	0.6	2.1	3.0				
FFP2	0.7	2.4					
FFP3	1.0						



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### Appendix 5: Summarization of Test Data

#### Breathing resistance (mbar)

	Flave	rata			36			37				38					
	Flow rate		Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Е
As received	Inholation	30 l/min	0.5	0.5	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.5	0.5
	Inhalation	95 l/min	1.8	1.9	1.9	1.9	1.9	1.8	1.9	2.0	1.9	1.9	1.9	1.8	1.8	1.9	1.9
	Exhalation	160 l/min	2.1	2.1	2.3	2.2	2.2	2.2	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.1
	Flow rate				39					40			41				
Simulated	FIOW	rale	Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Ε
wearing	Inhalation	30 l/min	0.6	0.6	0.5	0.6	0.6	0.5	0.6	0.5	0.6	0.6	0.5	0.6	0.6	0.6	0.5
treatment	Innalation	95 l/min	1.8	2.0	1.9	1.9	2.0	1.9	1.9	1.9	1.9	1.8	1.8	1.8	2.0	1.9	1.9
	Exhalation	160 l/min	2.2	2.1	2.2	2.2	2.2	2.2	2.3	2.1	2.2	2.2	2.2	2.1	2.2	2.3	2.3
	Flow	Flow rate								43					44		
Tomporatura	FIOW	rale	Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Ε
Temperature conditioned	Inhalation	30 l/min	0.6	0.6	0.6	0.6	0.5	0.5	0.6	0.6	0.6	0.6	0.5	0.5	0.5	0.6	0.5
conditioned in	innaiation	95 l/min	2.0	2.0	2.0	1.9	1.9	1.9	1.9	2.0	1.8	2.0	2.0	1.9	1.9	1.9	1.9
	Exhalation	160 l/min	2.2	2.2	2.3	2.2	2.1	2.3	2.2	2.2	2.3	2.1	2.1	2.2	2.3	2.2	2.2
Assessment	Pass																

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

### Clause 7.17 Clogging#

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

Test Requirement	Results	Comment
<u>Clause 7.17.2 Breathing resistance</u> <u>Valved particle filtering half masks:</u> 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. <u>Valveless particle filtering half masks:</u>	Optional for single shift device only	N.A.
After clogging the inhalation and exhalation resistances shall not exceed: FFP1: 3 mbar, FFP2: 4 mbar, FFP3: 5 mbar at 95L/min continuous flow		



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	Test Requirement		Results	Comment
All types (valved	netration of filter material and valveless) of particle filtering requirement shall also meet th			
Classificatio	Maximum penetration	n of test aerosol		
n	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	Optional for single	N.A.
	%	%	shift device only	
	max.	max.		
FFP1	20	20		
FFP2	6	6		
FFP3	1	1		

### 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	4.1%	
Penetration of filter material	1.1%	
Flammability	5.0%	
Carbon dioxide content of the inhalation air	2.6%	
Breathing resistance	1.8%	

# 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) L1499.



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Date: May 29,2020

### **Sample Photo**



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



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