



Date: Jun 15,2020

Page 1 of 10

3I CORPORATION LIMITED UNIT B,4/F, 114 KING FULK STREET, SAN PO KONG, KOWLOON, HONGKONG

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

Sample Description Sample color Composition Style no Supplier Manufacturer		(A)surgical mask White Meltblown/spunbond polypropylene KF101 3I CORPORATION LTD 3I CORPORATION LTD
Sample Receiving Date Testing Period	:	Apr 28, 2020 Apr 28, 2020 - Jun 15, 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).
Test Performed	:	Selected test(s) as requested by applicant

Conclusion:

Sample No.	Recommendation level
(A)	FFP1 NR

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

Angel Guo (Account Executive)



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Test Report

SL22002242931101TX

Date: Jun 15,2020

Page 2 of 10

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.	Comply	
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.



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Date: Jun 15,2020

Page 3 of 10

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

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	No sharp edges	Pass
sharp edges or burrs.	or burrs	F 855

Clause 7.9.1 Total Inward Leakage*

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

Subject	Sample	Condition	Walk(%)	Head	Head	Talk(%)	Walk(%)	Mean(%)
-	No.			Side/side(%)	up/down(%)			
1#	1	A.R.	13.2	16.0	15.5	16.0	12.9	14.7
2#	2	A.R.	12.9	17.3	16.0	16.5	12.3	15.0
3#	3	A.R.	13.4	15.9	15.5	15.6	13.8	14.8
4#	4	A.R.	13.3	15.6	15.6	15.9	12.9	14.7
5#	5	A.R.	13.6	16.4	17.3	17.7	13.9	15.8
6#	6	T.C.	13.8	16.9	17.1	17.1	14.6	15.9
7#	7	T.C.	13.1	16.9	15.8	15.2	13.3	14.9
8#	8	T.C.	13.8	15.7	16.4	16.2	14.6	15.3
9#	9	T.C.	13.1	15.2	16.1	15.8	12.5	14.5
10#	10	T.C.	13.9	17.1	17.2	15.7	13.4	15.5
50 out of	50 out of the 50 individual exercise results ≤ 25 %			Pass				
10 of the	10 of the 10 individual arithmetic means $\leq 22\%$							



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Test Report

SL22002242931101TX

Date: Jun 15,2020

Page 4 of 10

Facial Dimension

Subject	Face length(mm)	Face Width(mm)	Face Depth(mm)	Mouth Width(mm)
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
9#	118	139	130	63
10#	120	135	125	50



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Date: Jun 15,2020

Page 5 of 10

Clause 7.9.2 Penetration of Filter Material*

Test Requireme	.1:2009, Clause 8.11 & EN 132 ent	274-7:2019)	Results	Comment
	of the filter of the particle filte the following table.	ering half mask shall meet t	he	
Classifica	Maximum penetration	on of test aerosol		
tion	Sodium chloride test 95 I/min	Paraffin oil test 95 l/min		
	%	%	Detail refer Appendix 2	Page
	max.	max.		
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
		11	4.8	
	As received	12	4.9	
		13	4.8	
		14	4.9	
Sodium chloride test	Simulated wearing treatment	15	4.8	
		16	4.9	
	Machanical strength . Tomperature	17	5.1	
	Mechanical strength +Temperature conditioned	18	5.2	Pass
	conditioned	19	5.1	
		20	14.0	
	As received	21	15.5	
		22	14.5	
		23	15.2	
Paraffin oil test	Simulated wearing treatment	24	14.8	
		25	14.3	
Machanical strength Targerstreng	26	16.6]	
	Mechanical strength +Temperature conditioned	27	18.9	
		28	19.3	
	Flow conditioning : Single filter: 95.0	L/min		



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SL22002242931101TX **Test Report**

Date: Jun 15,2020

Page 6 of 10

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 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 reasived	29	Burn for 0.1s	
As received	30	Burn for 0.1s	Deee
Temperature	31	Burn for 0.1s	Pass
conditioned	32	Burn for 0.1s	

Clause 7.12 Carbon Dioxide Content of The Inhalation Air*

(EN 149:2001+A1:2009, Clause 8.7)

Test Requirement

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.	Result		Assessment
	33	0.5835%		
As received	34	0.5940%	Mean value :0.59%	Pass
	35	0.5960%		



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Date: Jun 15,2020

Page 7 of 10

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	Comply	Pass
be capable of maintaining total inward leakage requirements for the device.		

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.		1 855

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 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 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 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 exhalation valve	



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Date: Jun 15,2020

Page 8 of 10

Clause 7.16 Breathing Resistance* (EN 149:2001+A1:2009, Clause 8.9)

est Requireme	nt	Results	Comment			
The penetration of equirements of t	he following tal		g half mask shall m	neet the		
Classification		•	4	Detailers for the		
	Inha	alation	Exhalation		Detail refer to	Pass
	30 l/min	95 l/min	160 l/min		Appendix 5	1 400
FFP1	0.6	2.1 3.0				
FFP2	0.7	2.4	3.0	1		
===>	FFP3 1.0 3.0 3.0					

Appendix 5: Summarization of Test Data Breathing resistance (mbar)

Dicuting resist																	
As received	Flow rate		Specimen No.36				Specimen No.37					Specimen No.38					
			Α	В	С	D	Е	Α	В	С	D	E	Α	В	С	D	E
	Inhalation	30 l/min	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.3
		95 l/min	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.7	0.7	0.7
	Exhalation	160 l/min	1.2	1.3	1.2	1.3	1.3	1.3	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Simulated	Flow rate		Specimen No.39				Specimen No.40					Specimen No.41					
wearing treatment			A	В	С	D	Е	Α	В	С	D	E	A	В	С	D	Е
	Inhalation	30 l/min	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.3	0.3	0.2	0.2	0.2	0.2
		95 l/min	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.7	0.7
	Exhalation	160 l/min	1.2	1.3	1.3	1.2	1.3	1.2	1.2	1.2	1.2	1.2	1.3	1.2	1.2	1.3	1.2
Temperature	Flow r	ate	00	Speci	men	No.4	2	95	Speci	men	No.4	3	9	Speci	men	No.4	4
conditioned			A	В	С	D	Е	А	В	С	D	E	A	В	С	D	Е
	Inhalation	30 l/min	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2
		95 l/min	0.7	0.6	0.7	0.6	0.7	0.7	0.7	0.6	0.7	0.6	0.6	0.7	0.7	0.7	0.7
	Exhalation	160 l/min	1.2	1.3	1.2	1.3	1.2	1.3	1.2	1.3	1.2	1.3	1.2	1.2	1.2	1.2	1.2
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



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Date: Jun 15,2020

Page 9 of 10

Clause 7.17 Clogging*

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

Test Require	<u>ment</u>	Results	Comment	
Valved particl After clogging FFP1: 4 mba	<u>Pereathing resistance</u> <u>e filtering half masks:</u> the inhalation resistances shall no FFP2: 5 mbar, FFP3: 7 mbar at 9 n resistance shall not exceed 3 mb	Optional for single shift device only	N.A	
After clogging	ticle filtering half masks: the inhalation and exhalation resis ; FFP2: 4 mbar, FFP3: 5 mbar at 9			
o				
All types (va meet the clog	<u>B Penetration of filter material</u> ved and valveless) of particle filte ging requirement shall also meet th	ie requirements.		
All types (va meet the clog Classifica	ved and valveless) of particle filte ging requirement shall also meet th tio Maximum penetratio	n of test aerosol		
All types (va meet the clog	ved and valveless) of particle filte ging requirement shall also meet th	n of test aerosol	Optional for single	N.A
All types (va meet the clog Classifica	ved and valveless) of particle filte ging requirement shall also meet th tio Maximum penetratio	n of test aerosol	Optional for single shift device only	N.A
All types (va meet the clog Classifica	ved and valveless) of particle filte ging requirement shall also meet th tio Maximum penetratio Sodium chloride test 95 l/min	ne requirements. n of test aerosol Paraffin oil test 95 l/min		N.A
All types (va meet the clog Classifica	ved and valveless) of particle filte ging requirement shall also meet th tio Maximum penetratio Sodium chloride test 95 l/min %	n of test aerosol Paraffin oil test 95 l/min %		N.A
All types (va meet the clog Classifica n	ved and valveless) of particle filte ging requirement shall also meet th tio Maximum penetratio Sodium chloride test 95 l/min % max.	n of test aerosol Paraffin oil test 95 l/min % 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,	Not applicable	N.A
where possible by hand		

* Test items were carried out by (Jiangsu Guojian Testing Technology Co., Ltd) (CNAS L10118) assessed as competent, were not included in the CNAS Accredited Schedule for our laboratory.

<u>pH Value</u>

Test Method: According to ISO 3071:2020; 0.1mol/I KCL extraction

pH value	6.12	4.0 – 7.5	PASS

Note: pH value of extraction medium 5.81 Temperature of the extraction 22.3 ℃ solution





Date: Jun 15,2020

Page 10 of 10

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%
pH Value	3.98%

Sample photo



The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

End of Report



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