

German brand **OONEXX**, on stock in Germany 14 colors available with user instruction in 14 EU languages





Product Information

Size of mask	Package	Qty per box	Qty per carton	Carton measure	G. W. per carton
160x102mm	single package	20	1000	62,5x34x48cm	10,5KG

User Instuctions in 14 EU Languages



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User Instuctions in 14 EU Languages



Connexions Technology (Dong Guan)LTD.,

No.6, Shenbao Road, Qishi Town, DongGuan, GuangDong, China.

It is certified that the manufacturer's technical file and the PPE product detailed on page 2 have been assessed and found to be in accordance with

Regulation (EU) 2016/425

Module B, EU type-examination

This certificate is valid from 18 August 2021 until 18 August 2026 1. Certified since 18 August 2021

Authorised by

SGS FIMKO OY, Notified Body 0598

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Connexions Technology (Dong Guan)LTD.,

Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

CTC (logo) CTPL-0020 white folded half mask, consisting of a five layer (polypropylene/ polypropylene/ polypropylene & hot air cotton/polyester & polyethylene/ polypropylene) disposable particle filtering half mask, with nose clip, and nylon/spandex ear band.

The first body layer of masks are available in fourteen colourways: White, Grey, Dark blue, Light blue, Purple, Pink, Turquoise, Black, Orange, Yellow, Deep Pink, Blue, Red, Camouflage.

It is certified that the manufacturer's technical file and the above mentioned PPE have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 Personal Protective Equipment

The following have been applied:

EN 149:2001+A1:2009 (Respiratory protective devices - filtering half masks to protect against particles) device classification: FFP2 NR.

This certificate is issued on the strict condition that appropriate checks on manufactured PPE, as detailed in Article 19 (c) of the Regulation are implemented and maintained while the model is in production

Certification is based on technical file reference:

Face mask/ CTPL-0020 with supplement, version 4, dated: 2021-03-30.

SGS Reference Number UK/CRS 242005.

This certificate remains the property of SGS Fimko Oy to whom it must be returned on request.



SGS

Certificate CN20/42163

The management system of

Connexions Technology (Dong Guan) LTD.

No.6, Shenbao Road, Qishi Town, Dong Guan, Guang Dong, P.R. China

has been assessed and certified as meeting the requirements of

Regulation (EU) 2016/425

Module C2

For the following activities

Manufacture of CTC(logo), CTPL-0020 white folded Particle Filtering
Half Mask.

(Note: All products marked CE0598 must have a valid EU typeexamination certificate issued under Module B or a valid EC typeexamination certificate issued under Article 10 of Directive 89/686/EEC.)

This certificate is valid from 29 July 2020 and remains valid subject to satisfactory surveillance audits.

Issue 1. Certified since 29 July 2020

Authorised by

Jon Jon

SGS FIMKO OY, Notified Body 0598

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EU DECLARATION OF CONFORMITY

Manufacturer

Name: Connexions Technology(Dong Guan)LTD.

Address: No.6, Shenbao Road, Qishi Town, DongGuan, GuangDong, China

declares that the new PPE described hereafter

Particle Filtering Half Mask

EN 149:2001 + A1:2009

FFP2 NR

Model: CTPL-0020

are in conformity with the Regulation (EU) 2016/425 and with harmonized standard EN 149:2001 + A1:2009

Notify Body:

SGS Fimko Oy

Takomotie 8, FI-00380 Helsinki, Finland

Notified Body No. 0598

performed the EU type-examination Module B((EU) 2016/425) and issued the EU type-examination certificate D((EU) 2016/425).

The PPE is subject to the conformity assessment procedure conformity to type based on quality assurance of the production process (Module D) under surveillance of the notified body SGS Fimko Oy 0598.

Signed for on behalf of: Connexions Technology(Dong Guan)LTD.

Place: Dongguan, China

Date: 05.01.2028

Position: General Manage

Signature:









Test Report SL52025246081401TX Date: June 08,2020 Page 1 of 10

CONNEXIONS TECHNOLOGY (DONG GUAN) LTD NO. 6, SHENBAO ROAD, QISHI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

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

Sample Description : (A)Face mask

Style No. : CTPL-0020

Composition : (A)Non-woven fabric, melt-blown fabric, hot air cotton

Sample Color : (A)WHITE

Manufacturer : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

Country of Destination : Global

Supplier : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

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

Sample Receiving Date : Apr 28, 2020

Testing Period : Apr 29, 2020 - Jun 08, 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	Comply	Pass
before use.		

Date: June 08,2020

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.

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	No sharp edges	Pass
sharp edges or burrs.	or burrs	F d S S

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

illwalu Le	anaye res	<u>i Dala</u>						
Subject	Sample	Condition	Walk(%)	Head	Head	Talk(%)	Walk(%)	Mean(%)
	No.			Side/side(%)	up/down(%)			
Zhou	1	A.R.	6.11	5.08	7.73	5.47	6.33	6.14
Luo	2	A.R.	7.84	6.74	7.17	5.90	8.26	7.18
Lu	3	A.R.	6.44	4.86	6.48	6.18	7.10	6.21
Wang	4	A.R.	5.86	5.60	4.78	5.41	4.82	5.29
Bao	5	A.R.	8.29	8.66	7.51	6.82	5.91	7.44
Ding	6	T.C.	5.59	4.76	5.54	4.97	5.85	5.34
Li	7	T.C.	8.25	7.75	6.81	7.63	8.40	7.77
Chen	8	T.C.	5.45	5.05	5.98	5.58	5.35	5.48
Song	9	T.C.	5.60	6.81	5.64	6.70	6.99	6.35
Ye	10	T.C.	8.33	7.88	8.11	6.80	8.22	7.87

Facial Dimension(mm)

<u>Subject</u>	Face length	<u>Face Width</u>	Face Depth	Mouth Width
Chen	125	150	120	58
Lu	115	132	107	48
Zhou	115	135	106	52
Li	125	130	107	46
Luo	125	136	100	43
Zheng	128	140	112	55
Wang	120	147	103	48
Song	120	140	100	50
Bao	130	134	104	50



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Ding	134	150	110	52
Liu	120	135	117	50
Ye	126	137	105	52

<u>Clause 7.9.2 Penetration of Filter Material</u> (EN 149:2001+A1:2009, Clause 8.11 & EN 13274-7:2019)

		Test Requirement			Results	Comment
		of the filter of the particle filte	ring ha l f mask shall meet t	the		
requ	uirements of t	the following table.				
	Classifica	Maximum penetration				
	tion	Sodium chloride test 95	Paraffin oil test 95 I/min			Meet FFP1,
		l/min			Detail refer to	
		%	%		Appendix 2	Meet FFP2
		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 (%)
		1	0.117
	As received	2	0.126
		3	0.119
		4	0.145
Sodium chloride test	Simulated wearing treatment	5	0.190
		6	0.175
	Machaniaal atropath . Tomparatura	7	0.412
	Mechanical strength +Temperature conditioned	8	0.317
	conditioned	9	0.396
		10	0.201
	As received	11	0.306
		12	0.287
		13	0.279
Paraffin oil test	Simulated wearing treatment	14	0.314
		15	0.336
	Machaniaal atropath . Tamparatura	16	3.674
	Mechanical strength +Temperature conditioned	17	4.124
	conditioned	18	4.176
	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 health.	No irritation or any other adverse effect to health	Pass

Date: June 08,2020

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
As received	1	NIL
As received	2	NIL
Tomporature conditioned	3	NIL
Temperature conditioned	4	NIL

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	Detail refer to	Pass
exceed an average of 1,0 % (by volume)	Appendix 4	F a 5 5

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Resul	t(%)
	1	0.4875	
As received	2	0.4862	Mean value:0.49
	3	0.4869	



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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	
(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						
Classification	Maximı	um permitted resista	ance (mbar)		Detail refer to	Meet FFP1,
	Inf	Inhalation Exhalation				Meet FFP2,
	30 l/min	95 l/min	160 l/min		Appendix 5	Meet FFP3
FFP1	FFP1 0.6 2.1		3.0			
FFP2	0.7	2.4	3.0			
FFP3	1.0	3.0	3.0			

Appendix 5: Summarization of Test Data

Breathing resistance (mbar)

	Flow rate(I/min)		1					2 3									
			Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Е
As received	Inhalation	30	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	02
	IIIIalation	95	8.0	0.7	8.0	8.0	0.8	0.7	0.8	8.0	8.0	8.0	0.7	8.0	0.9	8.0	8.0
	Exhalation	160	1.5	1.6	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.7
			4				5 6										
Simulated	Flow rate(I	/min)	in) A		С	D	Е	Α	В	С	D	Е	Α	В	С	D	Е
wearing	Inhalation	30	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3
treatment		95	0.9	0.8	8.0	0.7	0.8	0.8	8.0	0.9	8.0	0.8	0.9	0.7	0.8	8.0	0.9
	Exhalation	160	1.6	1.6	1.4	1.5	1.6	1.6	1.5	1.5	1.4	1.6	1.6	1.6	1.6	1.5	1.5
		, , ,	7				8				9						
	Flow rate(I	/min)	Α	В	С	D	Ε	Α	В	С	D	E	Α	В	С	D	Ε
Temperature conditioned	Inhalation	30	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2
	IIIIIaiallOII	95	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7
'	Exhalation	160	1.3	1.3	1.4	1.3	1.4	1.3	1.3	1.3	1.4	1.3	1.3	1.4	1.4	1.3	1.4

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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Clause 7.17 Clogging

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

	Test Requirement	Results	Comment
Valved particle fill After clogging the FFP1: 4 mbar, FI The exhalation re flow. Valveless particle After clogging the	eathing resistance tering half masks: e inhalation resistances shall not FP2: 5 mbar, FFP3: 7 mbar at 95 esistance shall not exceed 3 mb e filtering half masks: e inhalation and exhalation resis FP2: 4 mbar, FFP3: 5 mbar at 95	Optional for single shift device only	N.A.
All types (valved	enetration of filter material I and valveless) of particle filte g requirement shall also meet th Maximum penetration Sodium chloride test 95 l/min % max. 20 6 1	Optional for single shift device only	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	d, No demountable	N.A.
where possible by hand	parts	IN.A.

Test	Uncertainty
Total inward leakage	3.4%
Penetration of filter material	4.8%
Carbon dioxide content of the inhalation air	3.9%
Breathing resistance (30L/min)	5.9%
Breathing resistance (95L/min)	4.9%
Breathing resistance (160L/min)	4.3%



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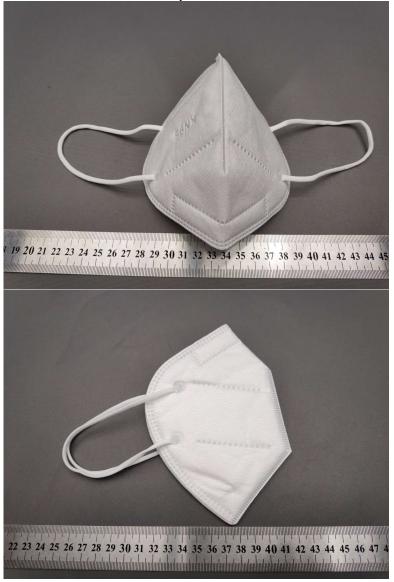
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End of Report



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Connexions Technology (Dong Guan)LTD.,

No.6, Shenbao Road, Qishi Town, DongGuan, GuangDong, China.

It is certified that the manufacturer's technical file and the PPE product detailed on page 2 have been assessed and found to be in accordance with

Regulation (EU) 2016/425

Module B, EU type-examination

This certificate is valid from 18 August 2021 until 18 August 2026 1. Certified since 18 August 2021

Authorised by

SGS FIMKO OY, Notified Body 0598

Takomotie 8, Fl-00380, Helsinki, Finland t +358 9 696 361 f +358 9 692 5474 www.sgs.com

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Connexions Technology (Dong Guan)LTD.,

Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

CTC (logo) CTPL-0020 white folded half mask, consisting of a five layer (polypropylene/ polypropylene/ polypropylene & hot air cotton/polyester & polyethylene/ polypropylene) disposable particle filtering half mask, with nose clip, and nylon/spandex ear band.

The first body layer of masks are available in fourteen colourways: White, Grey, Dark blue, Light blue, Purple, Pink, Turquoise, Black, Orange, Yellow, Deep Pink, Blue, Red, Camouflage.

It is certified that the manufacturer's technical file and the above mentioned PPE have been assessed and found to meet the applicable Essential Health and Safety Requirements in Annex II of Regulation (EU) 2016/425 Personal Protective Equipment

The following have been applied:

EN 149:2001+A1:2009 (Respiratory protective devices - filtering half masks to protect against particles) device classification: FFP2 NR.

This certificate is issued on the strict condition that appropriate checks on manufactured PPE, as detailed in Article 19 (c) of the Regulation are implemented and maintained while the model is in production

Certification is based on technical file reference:

Face mask/ CTPL-0020 with supplement, version 4, dated: 2021-03-30.

SGS Reference Number UK/CRS 242005.

This certificate remains the property of SGS Fimko Oy to whom it must be returned on request.



SGS

Certificate CN20/42163

The management system of

Connexions Technology (Dong Guan) LTD.

No.6, Shenbao Road, Qishi Town, Dong Guan, Guang Dong, P.R. China

has been assessed and certified as meeting the requirements of

Regulation (EU) 2016/425

Module C2

For the following activities

Manufacture of CTC(logo), CTPL-0020 white folded Particle Filtering
Half Mask.

(Note: All products marked CE0598 must have a valid EU typeexamination certificate issued under Module B or a valid EC typeexamination certificate issued under Article 10 of Directive 89/686/EEC.)

This certificate is valid from 29 July 2020 and remains valid subject to satisfactory surveillance audits.

Issue 1. Certified since 29 July 2020

Authorised by

Jon Jon

SGS FIMKO OY, Notified Body 0598

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EU DECLARATION OF CONFORMITY

Manufacturer

Name: Connexions Technology(Dong Guan)LTD.

Address: No.6, Shenbao Road, Qishi Town, DongGuan, GuangDong, China

declares that the new PPE described hereafter

Particle Filtering Half Mask

EN 149:2001 + A1:2009

FFP2 NR

Model: CTPL-0020

are in conformity with the Regulation (EU) 2016/425 and with harmonized standard EN 149:2001 + A1:2009

Notify Body:

SGS Fimko Oy

Takomotie 8, FI-00380 Helsinki, Finland

Notified Body No. 0598

performed the EU type-examination Module B((EU) 2016/425) and issued the EU type-examination certificate D((EU) 2016/425).

The PPE is subject to the conformity assessment procedure conformity to type based on quality assurance of the production process (Module D) under surveillance of the notified body SGS Fimko Oy 0598.

Signed for on behalf of: Connexions Technology(Dong Guan)LTD.

Place: Dongguan, China

Date: 05.01.2028

Position: General Manage

Signature:









Test Report SL52025246081401TX Date: June 08,2020 Page 1 of 10

CONNEXIONS TECHNOLOGY (DONG GUAN) LTD NO. 6, SHENBAO ROAD, QISHI TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

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

Sample Description : (A)Face mask

Style No. : CTPL-0020

Composition : (A)Non-woven fabric, melt-blown fabric, hot air cotton

Sample Color : (A)WHITE

Manufacturer : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

Country of Destination : Global

Supplier : CONNEXIONS TECHNOLOGY (DONG GUAN) LTD

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

Sample Receiving Date : Apr 28, 2020

Testing Period : Apr 29, 2020 - Jun 08, 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	Comply	Pass
before use.		

Date: June 08,2020

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.

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	No sharp edges	Pass
sharp edges or burrs.	or burrs	F d S S

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

illwalu Le	anaye res	<u>i Dala</u>						
Subject	Sample	Condition	Walk(%)	Head	Head	Talk(%)	Walk(%)	Mean(%)
	No.			Side/side(%)	up/down(%)			
Zhou	1	A.R.	6.11	5.08	7.73	5.47	6.33	6.14
Luo	2	A.R.	7.84	6.74	7.17	5.90	8.26	7.18
Lu	3	A.R.	6.44	4.86	6.48	6.18	7.10	6.21
Wang	4	A.R.	5.86	5.60	4.78	5.41	4.82	5.29
Bao	5	A.R.	8.29	8.66	7.51	6.82	5.91	7.44
Ding	6	T.C.	5.59	4.76	5.54	4.97	5.85	5.34
Li	7	T.C.	8.25	7.75	6.81	7.63	8.40	7.77
Chen	8	T.C.	5.45	5.05	5.98	5.58	5.35	5.48
Song	9	T.C.	5.60	6.81	5.64	6.70	6.99	6.35
Ye	10	T.C.	8.33	7.88	8.11	6.80	8.22	7.87

Facial Dimension(mm)

<u>Subject</u>	Face length	Face Width	Face Depth	Mouth Width
Chen	125	150	120	58
Lu	115	132	107	48
Zhou	115	135	106	52
Li	125	130	107	46
Luo	125	136	100	43
Zheng	128	140	112	55
Wang	120	147	103	48
Song	120	140	100	50
Bao	130	134	104	50



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Ding	134	150	110	52
Liu	120	135	117	50
Ye	126	137	105	52

<u>Clause 7.9.2 Penetration of Filter Material</u> (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					
requ	uirements of t	the following table.				
	Classifica	Maximum penetration	n of test aerosol			
	tion Sodium chloride test 95 Paraffin oil test 95 I/min					
		l/min			Detail refer to	Meet FFP1,
	% %				Appendix 2	Meet FFP2
		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 (%)
		1	0.117
	As received	2	0.126
		3	0.119
		4	0.145
Sodium chloride test	Simulated wearing treatment	5	0.190
		6	0.175
	Mechanical strength +Temperature conditioned	7	0.412
		8	0.317
	conditioned	9	0.396
		10	0.201
	As received	11	0.306
		12	0.287
	Simulated wearing treatment	13	0.279
Paraffin oil test		14	0.314
		15	0.336
	Machaniaal atropath . Tamparatura	16	3.674
	Mechanical strength +Temperature conditioned	17	4.124
	conditioned	18	4.176
	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 health.	No irritation or any other adverse effect to health	Pass

Date: June 08,2020

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
As received	1	NIL
As received	2	NIL
Tomporature conditioned	3	NIL
Temperature conditioned	4	NIL

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	Detail refer to	Pass
exceed an average of 1,0 % (by volume)	Appendix 4	F a 5 5

Appendix 4: Summarization of Test Data

Carbon Dioxide Content of The Inhalation Air

Condition	Sample No.	Result(%)			
	1	0.4875			
As received	2	0.4862	Mean value:0.49		
	3	0.4869			



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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	
(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)

Test Requirement				Results	Comment	
The penetration of the filter of the particle filtering half mask shall meet the requirements of the following table.						
Classification Maximum permitted resistance (mbar)				Data il mafanta	Meet FFP1,	
	Inf	nalation	Exhalation		Detail refer to	Meet FFP2,
	30 l/min	95 l/min	160 l/min		Appendix 5	Meet FFP3
FFP1	0.6	0.6 2.1 3.0				
FFP2	P2 0.7 2.4 3.0					
FFP3	1.0	3.0	3.0			

Appendix 5: Summarization of Test Data

Breathing resistance (mbar)

-								_									
	Flow rate(I/min)		1 1				2				3						
As received			Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Е
	Inhalation	30	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.3	02
		95	8.0	0.7	8.0	8.0	0.8	0.7	0.8	8.0	0.8	8.0	0.7	8.0	0.9	0.8	8.0
	Exhalation	160	1.5	1.6	1.5	1.6	1.7	1.6	1.6	1.6	1.6	1.5	1.6	1.6	1.6	1.6	1.7
Simulated wearing treatment	Flow rate(I/min)		4				5				6						
			Α	В	С	D	Е	Α	В	С	D	Е	Α	В	С	D	Е
	Inhalation	30	0.3	0.3	0.2	0.2	0.3	0.3	0.2	0.3	0.3	0.3	0.2	0.3	0.2	0.3	0.3
		95	0.9	0.8	8.0	0.7	0.8	0.8	8.0	0.9	0.8	0.8	0.9	0.7	8.0	8.0	0.9
	Exhalation	160	1.6	1.6	1.4	1.5	1.6	1.6	1.5	1.5	1.4	1.6	1.6	1.6	1.6	1.5	1.5
	Flow rate(I/min)		7				8				9						
Temperature conditioned			Α	В	С	D	Ε	Α	В	С	D	E	Α	В	С	D	Ε
	Inhalation	30	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2
		95	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.6	0.7	0.7
	Exhalation	160	1.3	1.3	1.4	1.3	1.4	1.3	1.3	1.3	1.4	1.3	1.3	1.4	1.4	1.3	1.4

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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Clause 7.17 Clogging

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

	Test Requirement	Results	Comment	
Valved particle fill After clogging the FFP1: 4 mbar, FI The exhalation re flow. Valveless particle After clogging the	eathing resistance tering half masks: e inhalation resistances shall not FP2: 5 mbar, FFP3: 7 mbar at 95 esistance shall not exceed 3 mb e filtering half masks: e inhalation and exhalation resis FP2: 4 mbar, FFP3: 5 mbar at 95	Optional for single shift device only	N.A.	
All types (valved	enetration of filter material I and valveless) of particle filte g requirement shall also meet th Maximum penetration Sodium chloride test 95 l/min % max. 20 6 1	e requirements.	Optional for single shift device only	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	d, No demountable	N.A.
where possible by hand	parts	IN.A.

Test	Uncertainty		
Total inward leakage	3.4%		
Penetration of filter material	4.8%		
Carbon dioxide content of the inhalation air	3.9%		
Breathing resistance (30L/min)	5.9%		
Breathing resistance (95L/min)	4.9%		
Breathing resistance (160L/min)	4.3%		



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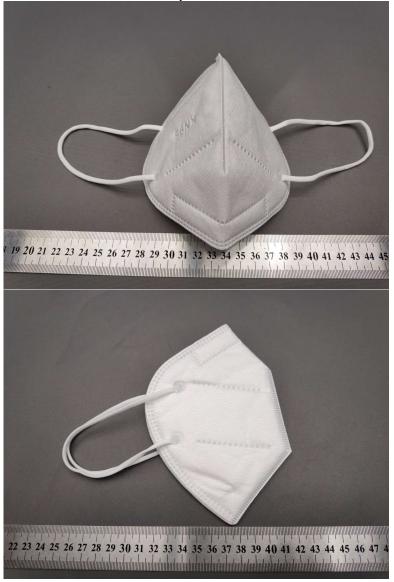
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