

Premium FFP2 Maske, nicht steril, CE 0598

Verpackung 20 x 1 Stück

EN 149:2001+A1:2009 (NR)



	NON-STERILE	1 STK PCS	FFP2 Mask with ear loops EN149:2001+A1:2009 (NR)
FFP2 NR EN149:2001+A1:2009			Verwendung von FFP2 Masken <ul style="list-style-type: none"> • Waschen Sie Ihr Hände bevor Sie die Maske anziehen; • Bedecken Sie sorgfältig Mund und Nase, drücken Sie den Nasenclip gut an; • Vermeiden Sie es, die Maske zu berühren, Ersetzen Sie die Maske durch eine neue, saubere und trockene Maske, sobald sie feucht wird; • Verwenden Sie Masken kein zweites Mal; • Entsorgen Sie die Maske nach Gebrauch unverzüglich und waschen Sie die Hände. Utiliser un masque Typa FFP2 <ul style="list-style-type: none"> • Lavez-vous les mains avant de mettre le masque; • Couvrez-vous soigneusement la bouche et le nez, appuyez fermement sur le pince-nez; • Évitez de toucher le masque • Remplacez le masque par un masque neuf, propre et sec dès qu'il devient humide; • N'utilisez pas de masques une deuxième fois; • jetez le masque immédiatement après utilisation et lavez-vous les mains. Usare una mascherina Tipo FFP2 <ul style="list-style-type: none"> • Lavarsi le mani prima di indossare la mascherina; • Copri la bocca e il naso con attenzione, premi saldamente il fermaglio per il naso; • Evita di toccare la mascherina • Sostituire la mascherina con una nuova, pulita e asciutta non appena diventa umida; • Non utilizzare le maschere una seconda volta; • gettare la mascherina immediatamente dopo l'uso e lavarsi le mani.
Premium Quality Atemschutzmaske Respirateur Respiratore Respirador		CE 0598	
Manufacturer: Qingdao JunHaoYuJia Medical Technology Co.,Ltd. Address: 1 longquanhe 1st road, Jimo district, Qingdao, Sha-n-dong province, China.		Importer: ILB Helios Holding AG Chamerstrasse 175, 6300 Zug, Switzerland www.ilb-helios-medical.com	

NON-STERILE

FFP2 NR
EN149:2001+A1:2009

Premium Quality Atemschutzmaske Respirateur Respiratore Respirador

Dustproof

Breathable

5-PY

20X1 PCS
INCL 20 HOOKS

Tested & CE by SGS

Importer: ILB Helios Holding AG
 Chamerstrasse 175, 6300 Zug, Switzerland

480mm

420mm

FFP2

EN 149:2001+A1:2009(NR)

Premium Quality Atemschutzmaske Respirateur Respiratore Respirador

60 Boxes 20 pcs/box

CARTON NO: of

QTY: 1200 PCS

N.W: 13.00 KGS

G.W: 15.00 KGS

MEAS: 60cmx42cmx48cm

Importer: ILB Helios Holding AG
Chamerstrasse 175, 6300 Zug, Switzerland
www.ilb-helios-medical.com

MADE IN CHINA

FFP2

EN 149:2001+A1:2009(NR)

Premium Quality Atemschutzmaske Respirateur Respiratore Respirador

60 Boxes 20 pcs/box

CARTON NO: of

QTY: 1200 PCS

N.W: 13.00 KGS

G.W: 15.00 KGS

MEAS: 60cmx42cmx48cm

Importer: ILB Helios Holding AG
Chamerstrasse 175, 6300 Zug, Switzerland
www.ilb-helios-medical.com

MADE IN CHINA

600mm

480mm

600mm

480mm

Zusätzlich inklusiv.: 20 x praktische Trage-Haken

20 PCS

INCL 20 HOOKS

ILB Helios Holding AG
Chamerstrasse 175
6300 Zug, Schweiz

Kontakt:
Mail: info@ilb-helios-medical.com
Web: www.ilb-helios-medical.com



FFP2 Maske, nicht steril / CE 0598 / EN 149:2001+A1:2009 (NR)

- **Zertifizierte Premium FFP2 Einweg-Schutzmaske**, weiss, mit elastischen Ohrenbänder, nicht steril
- **EN 149:2001+A1:2009 (NR), CE 0598**
- **BFE > (Bacteria Filter Performance): 94% für 0.6 µm Partikel**
- **Testbericht von SGS**, führendes akkreditiertes Schweizer Prüflabor mit Hauptsitz in Genf www.sgs.ch
- 3D Form mit integrierten Nasenclip
- **PSA Produkt nach (EU) 2016/425 Regulierung**
- **5 hochqualitative Vliesschichten / hergestellt in melt-blown Verfahren**
- Nicht gewebt / kein Fiber-Glass / kein Silicon
- **Box mit 20 x 1 Stück, jede Maske einzeln verpackt in Plastikbeutel** mit 4 sprachiger Gebrauchsanleitung
- Sehr angenehm zu tragen und **enthält zusätzlich 20 praktischen Hinterkopf-Tragehaken**
- **20 x 1 Stück in einer Box**, 1,200 Stk. Per Karton, 15 kg per Karton, 7,200 Stück per Palette
- **Ablaufdatum: 3 Jahre ab Produktionsdatum**

Technische Daten

- **FFP2 mit CE 0598 von SGS**,
- **PPF2 Einweg-Partikel-Filter-Maske** mit elastischen Ohrenbänder mit Nasenclip zum Schutz vor festen und flüssigen Aerosolen
- **Filterleistung gemäss EN 149:2001+A1:2009 (NR), BFE > 94%** von 0.6 µm Partikel
- Hersteller mit **ISO 9001 Zertifikat ausgestellt von SGS**
- **Anpassbarer Nasen-Clip**
- **Stabil und angenehm zu tragen**, kann auch von Brillenträgern gebraucht werden
- Masken-Grösse: 10.7 x 2 x 16 cm
- **Hochqualitatives 5-fach-Vlies** hergestellt im melt-blown Verfahren:
 1. Schicht: Hochqualitatives Vlies
 2. Schicht: Hochqualitatives Schmelzsprühgewebe mit hoher Dichte
 3. Schicht: Statisches Baumwollvlies
 4. Schicht: Hochqualitatives Schmelzsprühgewebe mit hoher Dichte
 5. Schicht: Hochqualitatives Vlies

Verpackung: Box mit 20 x 1 Stück / 1'200 Stück per Karton,
7'200 Stück per EUR-Palette, Gewicht Karton 15kg

Was	Details	Bemerkung
Zugelassen von: China Ministry of Commerce White List Producer	Ja	CE
CE Zertifikat	SGS	NB 0598
Produkte Klasse	Gemäß PSA Regulierung (EU) 2016/ 425	Kategorie III
Prüfbericht	SGS	Swiss certification institution
Standard	EN149:2001+A1: 2009 (NR)	FFP 2 / NR
Hersteller ISO Zertifikat	9001	von SGS
Produkteklassifizierung	PSA	Einweg
steril / nicht steril	nicht steril	
Farbe	weiss	
Ventil	keines	
Verpackung	20 x 1 Stück / Box 1'200 Stück/ Karton 15 kg / Karton	

Wichtiger Hinweis: Medizinischen OP-Masken vom Typ IIR mit Spritzschutz nach (EN 14683: 2019 + AC: 2019) mit CE, sowie FFP2-Masken (EN 149:2001+A1:2009 (NR)) mit CE bieten eine deutlich höhere Schutzwirkung als Hygienemasken oder normale Community-Masken. Voraussetzung ist allerdings, dass sie auch Partikel unter 1 µm gut filtern und es sich um zertifizierte Produkte handelt welche Testreport von einer autorisierten Prüfstelle haben und dass sie ein gültiges CE besitzen und die Masken richtig angewendet werden.

ILB bietet nur korrekt zertifizierte Masken mit einer erhöhten Schutzwirkung an.

Technisches Knowhow FFP 1/2/3 Unterschiede

Filter classes	Protection	When should I use?
FFP1	80%	These masks should never be used for protection! – only for comfort or hygiene, for example in the building or food industry.
FFP2	94%	These will only provide protection against non-hazardous, nuisance particles, such as smoke, fog and some aerosols. These are often used in the metal and mining industry.
FFP3	99.95%	This offers protection from any kind of particle that could damage your lungs, including poisonous or harmful dust, smoke, aerosols, or even pathogens and radioactive substances. These are used in any chemicals industry.
FFP1, FFP2 & FFP3 filters will only protect against particles and not gas or vapour.		

Based on this comparison, it is reasonable to consider China KN95, AS/NZ P2, Korea 1st Class, and Japan DS FFRs as "equivalent" to US NIOSH N95 and European FFP2 respirators, for filtering non-oil-based particles such as those resulting from wildfires, PM 2.5 air pollution, volcanic eruptions, or bioaerosols (e.g. viruses). However, prior to selecting a respirator, users should consult their local respiratory protection regulations and requirements or check with their local public health authorities for selection guidance.

Certification/ Class (Standard)	N95 (NIOSH-42C FR84)	FFP2 (EN 149-2001)	KN95 (GB2626-20 06)	P2 (AS/NZ 1716:2012)	Korea 1 st Class (KMOEL - 2017-64)	DS (Japan JMHLW- Notification 214, 2018)
Filter performance – (must be ≥ X% efficient)	≥ 95%	≥ 94%	≥ 95%	≥ 94%	≥ 94%	≥ 95%
Test agent	NaCl	NaCl and paraffin oil	NaCl	NaCl	NaCl and paraffin oil	NaCl
Flow rate	85 L/min	95 L/min	85 L/min	95 L/min	95 L/min	85 L/min
Total inward leakage (TIL)* – tested on human subjects each performing exercises	N/A	≤ 8% leakage (arithmetic mean)	≤ 8% leakage (arithmetic mean)	≤ 8% leakage (individual and arithmetic mean)	≤ 8% leakage (arithmetic mean)	Inward Leakage measured and included in User Instructions
Inhalation resistance – max pressure drop	≤ 343 Pa	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min) ≤ 500 Pa (clogging)	≤ 350 Pa	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min)	≤ 70 Pa (at 30 L/min) ≤ 240 Pa (at 95 L/min)	≤ 70 Pa (w/valve) ≤ 50 Pa (no valve)
Flow rate	85 L/min	Varied – see above	85 L/min	Varied – see above	Varied – see above	40 L/min
Exhalation resistance - max pressure drop	≤ 245 Pa	≤ 300 Pa	≤ 250 Pa	≤ 120 Pa	≤ 300 Pa	≤ 70 Pa (w/valve) ≤ 50 Pa (no valve)
Flow rate	85 L/min	160 L/min	85 L/min	85 L/min	160 L/min	40 L/min
Exhalation valve leakage requirement	Leak rate ≤ 30 mL/min	N/A	Depressurization to 0 Pa ≥ 20 sec	Leak rate ≤ 30 mL/min	visual inspection after 300 L/min for 30 sec	Depressurization to 0 Pa ≥ 15 sec
Force applied	-245 Pa	N/A	-1180 Pa	-250 Pa	N/A	-1,470 Pa
CO ₂ clearance requirement	N/A	≤ 1%	≤ 1%	≤ 1%	≤ 1%	≤ 1%

*Japan JMHLW-Notification 214 requires an Inward Leakage test rather than a TIL test.

Gebrauch von FFP2 Masken

Für die korrekte Verwendung Ihrer FFP2-Maske halten Sie sich bitte unbedingt an die örtlichen gültigen Arbeitsschutzbestimmungen und lesen Sie die Bedienungsanleitung sorgfältig durch. Wenn Sie nicht sicher sind, ob die Maske Sie in der vorhandenen Arbeitsumgebung oder Anwendung ausreichend schützt, fragen Sie bitte die zuständige Arbeitsschutzbehörde, bevor Sie sie verwenden.

Die Maske ist zum einmaligen Gebrauch bestimmt. Reinigen Sie die Maske nicht, waschen Sie sie nicht. Wenn die Maske defekt oder verschmutzt oder nass ist, verwenden Sie sie nicht und ersetzen Sie sie sofort.

FFP2-Masken ohne Ventil schützen den Träger und die Umwelt / andere Personen.

Alle Masken mit Ventil schützen nur den Träger, da die Luft ungefiltert durch das Ventil entweicht. Generell schützen die FFP2 Masken vor schädlichen Partikeln auf Wasser- und Öl-Basis, jedoch nicht vor krebserregenden Substanzen, radioaktiven Partikeln, luftgetragenen biologischen Wirkstoffen der Risikogruppe 3 und Enzymen.

Die Gesamtleckage (Leckage) beträgt maximal 8%, mindestens 94% der Schadstoffe werden aus der Luft herausgefiltert. Typische Anwendungen für eine FFP2-Maske sind Arbeiten mit Weichholz, Glasfasern, Metall, Kunststoffen (nicht PVC) und Öl-Nebel.

Das Robert Koch Institut Deutschland (RKI) und die Schweizerische BAG empfehlen FFP2-Masken und FFP3-Masken zur Behandlung und Pflege von Patienten mit einer Infektion mit dem SARS-CoV-2.

Corona-Virus: Locker sitzende Gesichtsmasken verhindern nicht, dass Menschen ihre Umgebung mit ausgeatmeten Tröpfchen kontaminieren oder dass sie Partikel einatmen. Der Träger selbst ist nur in begrenztem Umfang geschützt, da die Maske keinen 100%-tigen Schutz gegen Aerosole (die feinsten Tröpfchen in der Luft) bietet.

Eng anliegende FFP2-Masken schützen den Träger zuverlässig vor Partikel oder Viren, bieten jedoch auch keinen 100%-tigen Schutz. Diese Atemschutzmasken filtern aber selbst kleinste Partikel und Aerosole aus der Luft. Masken mit Ausatemventil sind bequemer zum Atmen. Atemschutzmasken ohne Ausatemventil verhindern jedoch, dass der Maskenträger seine Umgebung nicht mit ausgeatmeten Tröpfchen kontaminiert. FFP-Masken sind in verschiedenen Schutzstufen erhältlich.

ILB Helios Holding AG

Wir sind ein ehemaliges ABB-Unternehmen, das sich auf Herstellung, Supply-Management, Qualitätssicherung und Logistik von PSA und Medizinprodukten spezialisiert hat. Dank unserer langjährigen Erfahrung und unserem internationalen Netzwerks garantieren wir eine qualitativ hochwertige Lieferkette und Distribution. Wir sind nach ISO 9001/140001 für die Herstellung und den Import/Export von PSA und medizinischen Produkten zertifiziert.

ISO 9001 Zertifikat von SGS

Certificate CN20/11335

The management system of

**Qingdao Junhaoyujia Medical
Technology Co., Ltd.**

Business Registration Address: J4-3-555, the North of Longquanhe 1st,
the West of Fenghuangshan 3rd Road, Jimo District, Qingdao City,
Shandong Province, P.R. China
Business Operation Address: 1 Longquanhe 1st Road, Jimo District,
Qingdao City, Shandong Province, P.R. China

Unified Social Credit Code 91370282MA3RREX88A

has been assessed and certified as meeting the requirements of

ISO 9001:2015

For the following activities

Manufacture of Personal Protective Respirators

This certificate is valid from 2 November 2020 until 1 November 2023
and remains valid subject to satisfactory surveillance audits.
Recertification audit due a minimum of 60 days before the expiration date.
Issue 1. Certified since 2 November 2020

Authorised by

SGS United Kingdom Ltd
Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN, UK
t +44 (0)151 350-6666 f +44 (0)151 350-6600 www.sgs.com
The certification information can be verified on the web site of Certification and Accreditation
Administration of the People's Republic of China www.cnca.gov.cn

HC SGS 9001 2015 0118

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CE Zertifikat von SGS NB 0598

Certificate FI20/966471

Qingdao Junhaoyujia Medical Technology Co., Ltd.

1 Longquanhe 1st Road, Jimo District,
Qingdao, ShanDong Province,
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 27 August 2020 until 27 August 2025
1, Certified since 27 August 2020

Authorized by



FINAS
Finnish Accreditation Service
S003 (EN ISO/IEC 17065)

SGS FIMKO OY, Notified Body 0598
Tukomode 8, FI-00380, Helsinki, Finland
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Certificate FI20/966471, continued

**Qingdao Junhaoyujia
Medical Technology Co.,
Ltd.**

Regulation (EU) 2016/425
Module B, EU type-examination

Issue 1

PPE Product

KEYOU (logo) KY2020777, single use particle filtering half mask.

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) for a performance 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: KY2020777, Version 3 dated 2020-07-30

SGS Reference Number UK/CRS 241402

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



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Finnish Accreditation Service
S003 (EN ISO/IEC 17065)

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Certificate CN20/42275

The management system of

Qingdao Junhaoyujia Medical Technology Co., Ltd.

1 Longquanhe 1st Road, Jimo District, Qingdao,
Shandong Province, China
has been assessed and certified as meeting the requirements of

Regulation (EU) 2016/425 Module C2

For the following activities

**Manufacture of KEYOU(logo) KY2020777 single use particle filtering
half mask.**

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

This certificate is valid from 14 September 2020
and remains valid subject to satisfactory surveillance audits.
Issue 1. Certified since 14 September 2020

Authorised by

SGS FIMKO OY, Notified Body 0598

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

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SGS Test-Bericht für FFP2 Maske nach EN149: 2001 + A1: 2009 (NR)



中国认可
国际互认
检测
TESTING
CNAS L0599

Test Report **SL52035261142001TX** **Date: June 23,2020** **Page 1 of 10**

QINGDAO JUNHAO YUJIA MEDICAL TECHNOLOGY CO.,LTD
LONGQUANHE ROAD NORTH, FENGHUANG SHAN SAN ROAD WEST, JIMO DISTRICT, QINGDAO CITY,
SHANDONG PROVINCE

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

- Sample Description : (A) Protective face mask
- Sample color : White
- Style no : KY2020777

- Sample Receiving Date : Apr 13, 2020
- Testing Period : Apr 13, 2020 - Jun 23, 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)	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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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN_Doccheck@sgs.com

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Test Report

SL52035261142001TX

Date: June 23,2020

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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.	Comply	Pass
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	
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

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



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Test Report

SL52035261142001TX

Date: June 23,2020

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Clause 7.9.1 Total Inward Leakage*
(EN 149:2001+A1:2009, Clause 8.5)

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

Appendix 1: Summarization of Test Data

Inward Leakage Test Data

Subject	Sample No.	Condition	Walk(%)	Head Side/side(%)	Head up/down(%)	Talk(%)	Walk(%)	Mean(%)	
1#	1	A.R.	4.5	5.2	5.3	5.3	4.7	5.0	
2#	2	A.R.	4.2	4.8	4.7	5.0	4.3	4.6	
3#	3	A.R.	4.5	5.6	5.8	5.7	5.0	5.3	
4#	4	A.R.	4.2	4.8	5.0	5.0	4.5	4.7	
5#	5	A.R.	4.5	5.2	5.4	5.6	4.7	5.1	
6#	6	T.C.	5.1	6.0	6.3	6.4	5.6	5.9	
7#	7	T.C.	4.9	5.1	5.3	5.5	4.9	5.1	
8#	8	T.C.	4.1	4.9	4.8	5.0	4.4	4.6	
9#	9	T.C.	4.2	4.9	5.3	5.4	4.5	4.9	
10#	10	T.C.	4.5	5.2	5.4	5.3	4.8	5.0	
50 out of the 50 individual exercise results ≤ 11 %					Pass				
10 of the 10 individual arithmetic means ≤ 8%									

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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Clause 7.9.2 Penetration of Filter Material*
 (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 requirements of the following table.			Detail refer to Appendix 2	Meet FFP1, Meet FFP2
Classification	Maximum penetration of test aerosol			
	Sodium chloride test 95 l/min	Paraffin oil test 95 l/min		
	%	%		
	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 (%)
Sodium chloride test	As received	11	0.1
		12	0.2
		13	0.1
	Simulated wearing treatment	14	0.1
		15	0.1
		16	0.1
	Mechanical strength +Temperature conditioned	17	0.3
		18	0.3
		19	0.2
20		1.0	
Paraffin oil test	As received	21	0.8
		22	0.9
		23	1.0
	Simulated wearing treatment	24	1.0
		25	1.1
		26	2.2
	Mechanical strength +Temperature conditioned	27	2.5
		28	2.3

Flow conditioning: Single filter: 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

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 received	29	Burn for 0.1s	Pass
	30	Burn for 0.1s	
Temperature conditioned	31	Burn for 0.1s	
	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	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
As received	33	0.7125%	Pass
	34	0.7130%	
	35	0.7101%	
		Mean value :0.71%	



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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	Pass
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	

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 exhalation valve	N.A
(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	
(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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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.	Detail refer to Appendix 5	Meet FFP1, Meet FFP2, Meet FFP3																						
<table border="1"> <thead> <tr> <th rowspan="3">Classification</th> <th colspan="3">Maximum permitted resistance (mbar)</th> </tr> <tr> <th colspan="2">Inhalation</th> <th>Exhalation</th> </tr> <tr> <th>30 l/min</th> <th>95 l/min</th> <th>160 l/min</th> </tr> </thead> <tbody> <tr> <td>FFP1</td> <td>0.6</td> <td>2.1</td> <td>3.0</td> </tr> <tr> <td>FFP2</td> <td>0.7</td> <td>2.4</td> <td>3.0</td> </tr> <tr> <td>FFP3</td> <td>1.0</td> <td>3.0</td> <td>3.0</td> </tr> </tbody> </table>			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
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																					

Appendix 5: Summarization of Test Data

Breathing resistance (mbar)

As received	Flow rate		Specimen No.36					Specimen No.37					Specimen No.38				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30 l/min	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.4	0.4
		95 l/min	1.8	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.7	1.8	1.7	1.8	1.7	1.8	1.7
Exhalation	160 l/min	2.2	2.3	2.2	2.3	2.2	2.3	2.3	2.2	2.2	2.2	2.2	2.3	2.2	2.2	2.3	
Simulated wearing treatment	Flow rate		Specimen No.39					Specimen No.40					Specimen No.41				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30 l/min	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.5
		95 l/min	1.7	1.8	1.7	1.8	1.7	1.7	1.8	1.8	1.7	1.7	1.7	1.8	1.7	1.8	1.8
Exhalation	160 l/min	2.3	2.3	2.2	2.3	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.3	2.2	2.3	2.3	
Temperature conditioned	Flow rate		Specimen No.42					Specimen No.43					Specimen No.44				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30 l/min	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4
		95 l/min	1.8	1.7	1.7	1.8	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.7	1.8	1.7	1.7
Exhalation	160 l/min	2.2	2.2	2.3	2.3	2.2	2.2	2.3	2.3	2.2	2.3	2.3	2.3	2.2	2.3	2.3	
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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Clause 7.17 Clogging*

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

Test Requirement	Results	Comment																			
<p>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.</p> <p>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</p>	Optional for single shift device only	N.A																			
<p>Clause 7.17.3 Penetration of filter material All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p> <table border="1"> <thead> <tr> <th rowspan="3">Classification</th> <th colspan="2">Maximum penetration of test aerosol</th> </tr> <tr> <th>Sodium chloride test 95 l/min</th> <th>Paraffin oil test 95 l/min</th> </tr> <tr> <th>%</th> <th>%</th> </tr> </thead> <tbody> <tr> <td></td> <td>max.</td> <td>max.</td> </tr> <tr> <td>FFP1</td> <td>20</td> <td>20</td> </tr> <tr> <td>FFP2</td> <td>6</td> <td>6</td> </tr> <tr> <td>FFP3</td> <td>1</td> <td>1</td> </tr> </tbody> </table>	Classification	Maximum penetration of test aerosol		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min	%	%		max.	max.	FFP1	20	20	FFP2	6	6	FFP3	1	1	Optional for single shift device only	N.A
Classification		Maximum penetration of test aerosol																			
		Sodium chloride test 95 l/min	Paraffin oil test 95 l/min																		
	%	%																			
	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	Comply	Pass

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 carried out by external laboratory accredited by CNAS (China National Accreditation Service for Conformity Assessment) L10118.

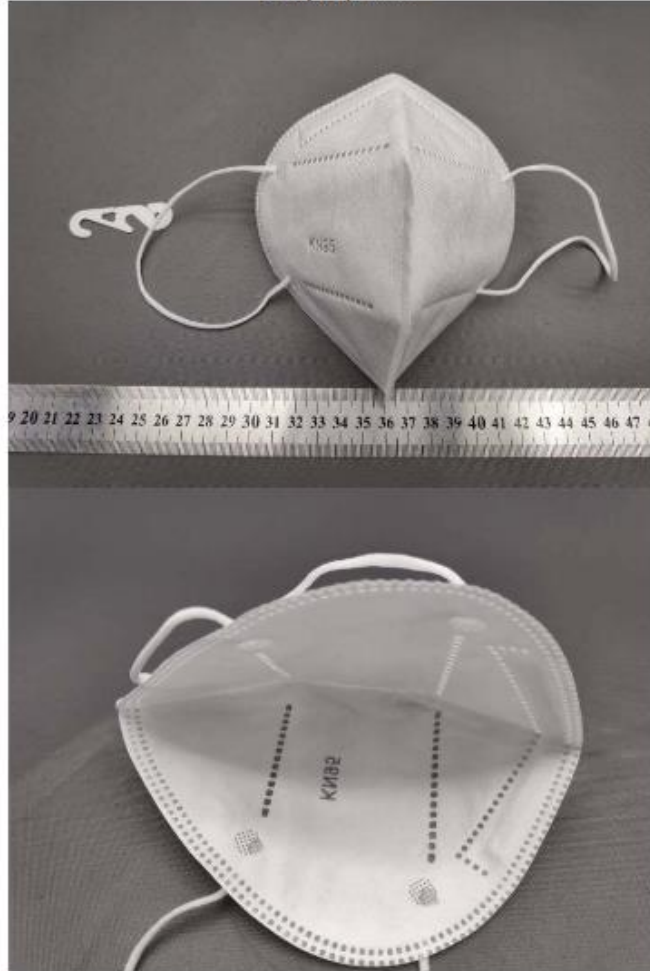


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