

Masque premium FFP2, non stérile, CE 0598
Emballage 4 x 5 pièces
EN 149:2001+A1:2009 (NR)



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En plus: 20 x crochets de pratiques



FFP2 Masque, non stérile / CE 0598 / EN 149:2001+A1:2009 (NR)

- **Certifiés Premium FFP2 Masque de protection jetable**, blanc, avec des ligaments élastiques, non stérile
- **EN 149:2001+A1:2009 (NR), CE 0598**
- **BFE > (performance de filtre): 94% pour 0.6 µm de particules**
- **Rapport d'essai de SGS**, principal laboratoire d'essais accrédité suisse dont le siège se trouve à Genève www.sgs.ch
- **Forme 3D avec clip nasal intégré**
- **EPI produit après (UE) 2016/425 Réglementation**
- **5 couches non-tissés de haute qualité / fabriquées par melt-blown procédé**
- **Non tissé / pas de verre fibre / pas de silicone**
- **Boîte de 20 pièces, 4 x 5 pièces, dans un sac en plastique avec 4 (4 langues) instructions d'utilisation**
- **Très agréable à porter et contient en plus 20 crochets pratiques à l'arrière de la tête**
- **20 pièces, 4 x 5 pièces dans une boîte, 1,200 pièces par carton, 12 kg par carton, 7,200 pièces par palette**
- **Date d'expiration: 3 ans à compter de la date de production**

Données techniques

- **FFP2 avec CE 0598 de SGS, masque de filtre à particules à usage unique** avec cordons élastiques d'oreille avec clip nez pour se protéger contre les aérosols solides et liquides
- **Puissance de filtrage selon EN 149:2001+A1:2009 (NR), BEN > 94% de 0.6 µm de particules**
- **Fabricant avec certificat ISO 9001 et CE délivré par SGS**
- **Clip nez personnalisable**
- **Stable et agréable à porter, peut également être utilisé par les porteurs de lunettes**
- **Taille des masques : 10.7 x 2 x 16 cm**
- **Non-tissé à 5 vitesses de haute qualité fabriqué par la méthode melt-blown :**
 - 1er couche: non-tissé de haute qualité
 - 2. Couche: tissu de fusion de haute qualité à haute densité
 - 3. Couche : coton en coton statique
 - 4. Couche: tissu de fusion de haute qualité à haute densité
 - 5. Couche: Non-tissé de haute qualité

Emballage : Boîte de 4 x 5 pièces / 1'200 pièces par carton,
7'200 pièces par palette EUR

Quoi	Détails	Observation
Approuvé par : China Ministry of Commerce White List Producer	Oui	CE
Certificat CE	SGS	NB 0598
Produits classe	Selon la réglementation EPI (EU) 2016/ 425	Catégorie III
Rapport d'essai	SGS	Institution de certification suisse
Standard	EN149:2001+A1: 2009 (NR)	FFP 2 / NR
Fabricant certificat ISO	9001	de SGS
Classification des produits	PSA	A l'usage unique
stérile / non stérile	non stérile	
Couleur	blanc	
Soupape	petite	
Emballage	20 pièces / boîte 1'200 pièces/ carton 12 kg / carton	

Note importante: Les masques chirurgicaux médicaux de type IIR avec protection contre les éclaboussures selon (EN 14683: 2019 + AC: 2019) avec CE, ainsi que les masques FFP2 (EN 149: 2001 + A1: 2009 (NR)) avec CE offrent un effet protecteur nettement supérieur aux masques d'hygiène ou des masques de communauté normaux. Cependant, la condition préalable est qu'ils filtrent également les particules inférieures à 1 µm et que les produits soient certifiés qui ont des rapports de test de centres de test agréés et qu'ils aient un CE valide et que les masques soient utilisés correctement.

ILB ne propose que des masques correctement certifiés avec une protection accrue.

Savoir-faire technique FFP 1/2/3

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.

Utilisation de masques FFP2

Pour l'utilisation correcte de votre masque FFP2, veuillez impérativement respecter les dispositions locales en matière de sécurité et de santé et lire attentivement le mode d'emploi. Si vous n'êtes pas sûr que le masque vous protège suffisamment dans l'environnement de travail ou l'application existant, demandez à l'autorité compétente en matière de protection du travail avant de l'utiliser.

Le masque est destiné à une utilisation unique. Ne nettoyez pas le masque, ne le lavez pas. Si le masque est défectueux ou pollué ou humide, ne pas l'utiliser et le remplacer immédiatement.

Masques FFP2 sans soupape protègent le porteur et l'environnement / autres personnes.

Tous les masques avec soupape ne protègent que le porteur, car l'air s'échappe sans filtre à travers la valve. D'une manière générale, les masques FFP2 protègent contre les particules nocives à base d'eau et d'huile, mais pas contre les substances cancérigènes, les particules radioactives, les agents biologiques transportés dans l'air du groupe à risque 3 et les enzymes.

La fuite totale (fuite) ne dépasse pas 8%, et au moins 94% des polluants sont filtrés de l'air. Les applications typiques d'un masque FFP2 sont le travail avec du bois mou, des fibres de verre, du métal, des matières plastiques (non PVC) et du brouillard huileux.

L'Institut Robert Koch d'Allemagne (RKI) et l'OFSP suisse recommandent des masques FFP2 et FFP3 pour le traitement et la prise en charge des patients infectés par le SRAS-CoV-2.

Virus Corona: les masques masqués du visage relâchés n'empêchent pas les gens de contaminer leur environnement avec des gouttelettes expirées ou d'inhaler des particules. Le support lui-même n'est protégé que dans une mesure limitée, car le masque n'offre pas une protection à 100% contre les aérosols (les gouttelettes les plus fines dans l'air).

Les masques FFP étroits protègent le porteur de manière fiable contre les particules ou les virus, mais n'offrent pas non plus une protection à 100%. Ces masques de protection respiratoire filtrent même les plus petites particules et aérosols de l'air. Les masques avec soupape d'exhalation sont plus confortables pour respirer. Cependant, les masques de protection respiratoire sans soupape d'exhalation empêchent le porte-masque de ne pas contaminer son environnement avec des gouttelettes expirées. Les masques FFP sont disponibles en différents niveaux de protection.

ILB Helios Holding AG

Nous sommes une ancienne société ABB spécialisée dans la fabrication, la gestion de l'approvisionnement, l'assurance qualité et la logistique de PSA et de dispositifs médicaux. Grâce à nos nombreuses années d'expérience et à notre réseau international, nous garantissons une chaîne d'approvisionnement et une distribution de haute qualité. Nous sommes certifiés ISO 9001/14001 pour la fabrication et l'importation/exportation d'EPI et de produits médicaux.

Certificat ISO 9001 de 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



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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



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HC SGS 9001 2015 0118

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Certificat CE de 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

Authorised by



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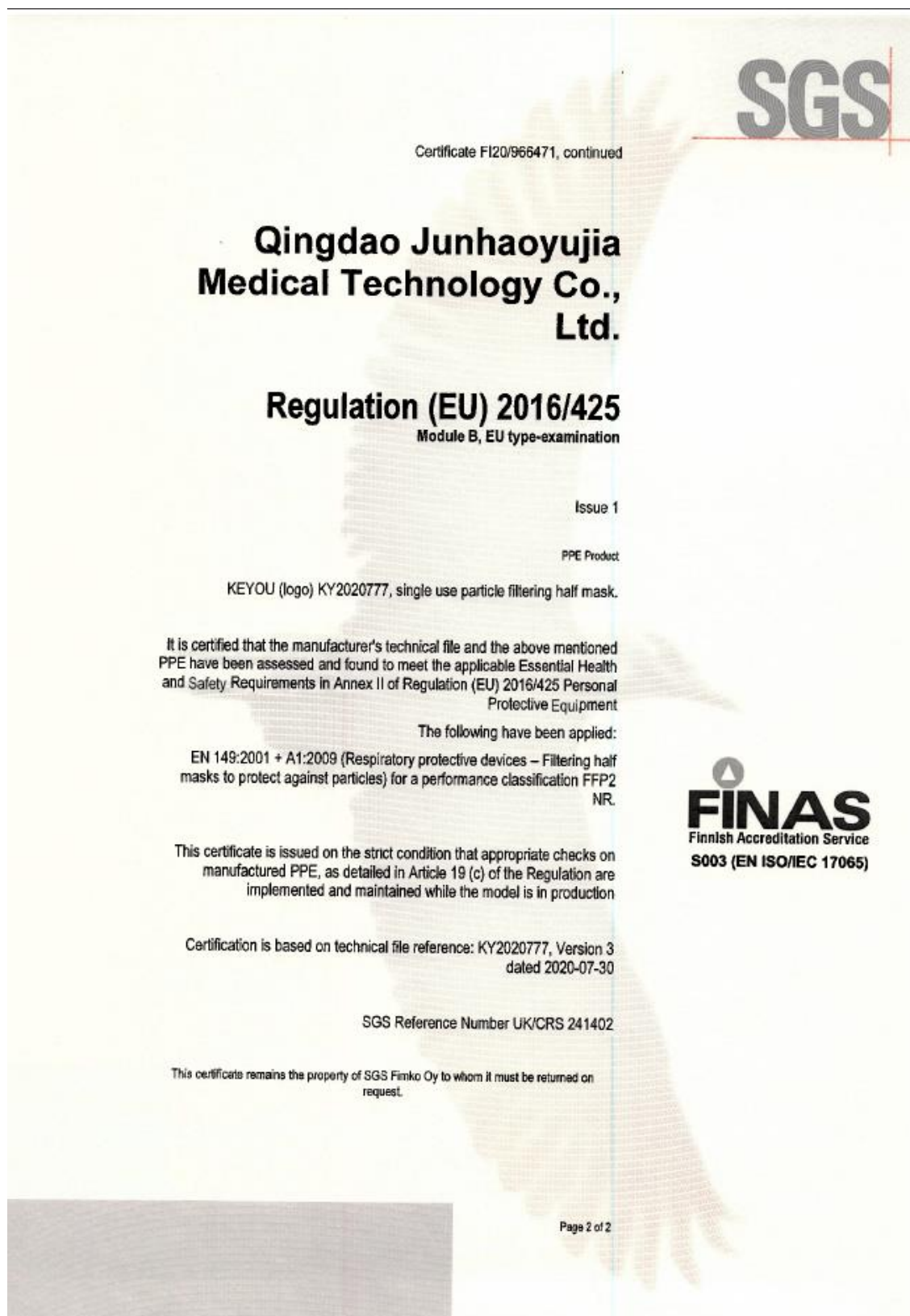


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S003 (EN ISO/IEC 17065)

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SGS

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



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Rapport de test SGS pour masque FFP2 selon 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

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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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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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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.</p> <p>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</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 \leq 11 %					Pass			
10 of the 10 individual arithmetic means \leq 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																				
<table border="1"> <thead> <tr> <th rowspan="2">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><th>%</th></tr> <tr> <th></th><th>max.</th><th>max.</th></tr> </thead> <tbody> <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		
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
Paraffin oil test	As received	20	1.0
		21	0.8
		22	0.9
	Simulated wearing treatment	23	1.0
		24	1.0
		25	1.1
	Mechanical strength +Temperature conditioned	26	2.2
		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 DataFlammability

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 DataCarbon 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><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><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></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)

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	2.3	2.2	2.2
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
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
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.	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.

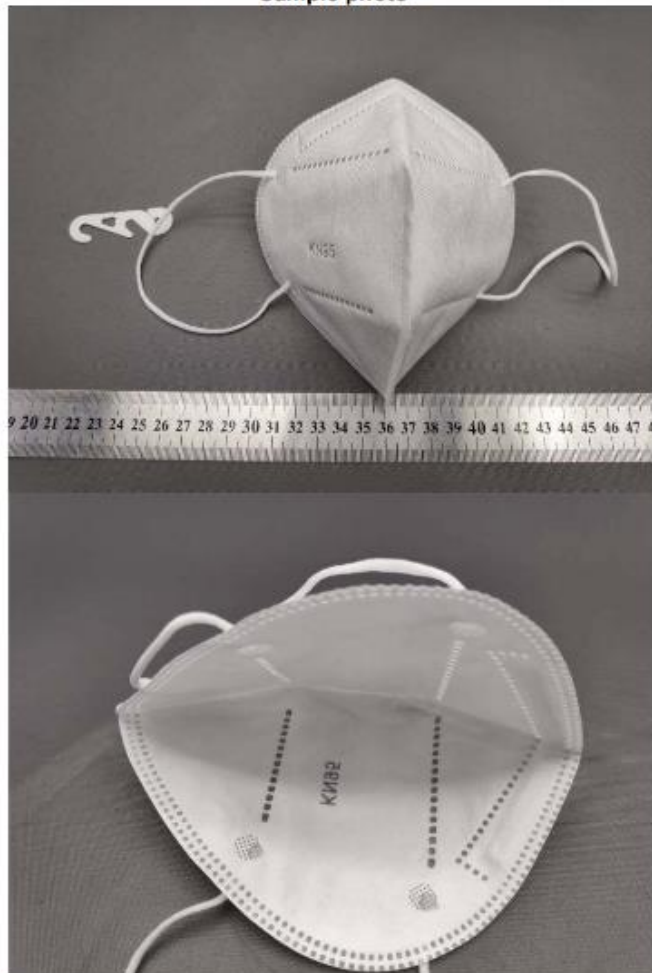


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