



Care





Care



### Atemschutzmaske Schutzklasse FFP2 NR

Particle Filtering Half Mask  
protection class FFP2 NR



EN149:2001 + A1:2009  
Regulation (EU) 2016/425

CE 0598

1 Stk. Pcs.



Produktinformation	product information
Produktname: Atemschutzmaske	product name: Particle Filtering Half Mask
Produktmodell: DH99001	product model: DH99001
Partikel Filter Effizienz: >94%	PE: >94%
Halbzeitwert: 2 Jahre	shelf life: 2 years
Lagerung: Gut belüftete, dunkle und trockene Umgebung	storage: well-ventilated and dry environment
Empfohlen wird die Lagerung bei einer Temperatur von 15°C bis 25°C (relative Luftfeuchtigkeit unter 80%).	recommended to be stored at temperature: <math>15^{\circ}\text{C}</math> to <math>25^{\circ}\text{C}</math> (relative humidity below 80%)

**Benutzungsanweisung:** Die Nichtbeachtung der Anweisungen und Warnhinweise zur Verwendung dieser Maske während einer Epidemiewelle kann die Wirksamkeit der Maske verringern und zu Krankheit oder Behinderung führen. Es empfiehlt sich, die Anweisungen der Maske sorgfältig zu lesen und sie sorgfältig zu befolgen. Die Maske ist für den persönlichen Gebrauch vorgesehen und ist nicht für den professionellen Gebrauch geeignet. Die Maske ist für den persönlichen Gebrauch vorgesehen und ist nicht für den professionellen Gebrauch geeignet.

**Our instructions:** Failure to follow the instructions warning on the use of this mask during times of epidemic can reduce the effectiveness of the mask (original) mask in disease or disability. It is recommended to read the instructions carefully and follow them. The mask is intended for personal use and is not suitable for professional use.



**Nutzungsanleitung**

1. Halten Sie die Verpackungsumhülle dicht fest und Mund in Position 2. Ziehen Sie die Bänder hinter die Ohren, bedecken Sie die Brücke des Halbkopfes, wobei Sie den Nasenfortsatz und verhindern Sie Lücken 3. Sichern Sie, dass der Nasenclip sicher um die Nase gedrückt werden kann 4. Einmal in der Höhe anbringen müssen, um eine vollständige Abdichtung zu gewährleisten 5. Halten Sie den Nasenclip zu überprüfen, halten Sie beide Hände über die Maske und ziehen Sie leicht nach unten, um die Nase herum Luft ausströmen Sie den Nasenclip fest, wenn Sie den Nasenclip ausströmen Sie das Kopfgerüst neu von einem Belastungs Satz zu wechseln 6. Wiederholen Sie die Positionierung, bis die Maske richtig abgedichtet ist 7. Wenn keine verschmutzte Luftabströmung erreicht werden kann, darf der verschmutzte Bereich nicht berührt werden, was zu einer Verschmutzung führen kann.

Yoshou Donghaiwang Protective Equipment Co., Ltd.  
1032011 Da Nong Avenue, Daxin Town, Lincun City, Zhejiang Province, China  
Tel: +86 (574) 8932 9953

Responsible State: **Responsible State:** FIMKO OY, Kaasatiekatu 20/28  
Laituriestie 6, FI-00380, Helsinki, Finland, t +358 9 606 36 11 +358 9 692 5474, suomi.com

Importeur: **Importeur:** KSI International GmbH, Zellwieser Weg 3, 02609 Dessau, Germany

**Fitting Instructions**

1. Hold the particle half mask in position before the nose and mouth. 2. Pull the headbands behind the ears, attach the headbands to bridge the nose, pull the elastic against the cheek to obtain a good seal. 3. Ensure the nose clip is snugly secured around the nose. 4. Pull the mask upwards to ensure a good seal. 5. Repeat adjustment until the mask is properly seated. 6. If a proper seal cannot be achieved in the above steps, do not use the mask.

**LOT** siehe unten **Produktionsdatum:** 01/2021 **Herstellungsdatum:** 2023-01  
see below **production date:** 2021/01 **and of shelf life:** 2023-01



Product Service

# Certificate

No. Q6 001517 0003 Rev. 00

**Holder of Certificate:** **Ningbo Tianbo  
First Aid Product Co., Ltd.**  
Yushan Tou Village, Dongqiao Town  
315156 Yinzhou, Ningbo  
PEOPLE'S REPUBLIC OF CHINA

**Certification Mark:**



**Scope of Certificate:** **Production and Distribution of First Aid Kit,  
Wound Plaster, Applicator, Gauze Sponges,  
Gauze Roll, Medical Tape, Medical Bandage,  
Alcohol Pads, Gloves, Wipe, Wound Fluid Plaster,  
Wound Dressing, Emergency Blanket,  
Medical Mask, First Aid Scissors**

The Certification Body of TÜV SÜD Product Service GmbH certifies that the company mentioned above has established and is maintaining a quality management system (excluding subclause 7.3), which meets the requirements of the listed standard(s). All applicable requirements of the testing and certification regulation of TÜV SÜD Group have to be complied with. For details and certificate validity see: [www.tuvsud.com/ps-cert?q=cert:Q6\\_001517\\_0003\\_Rev\\_00](http://www.tuvsud.com/ps-cert?q=cert:Q6_001517_0003_Rev_00)

**Report No.:** SH20120601

**Valid from:** 2021-01-14

**Valid until:** 2023-12-20

**Date,** 2021-01-14



Christoph Dicks  
Head of Certification/Notified Body



Product Service

# Certificate

No. Q6 001517 0003 Rev. 00

**Applied Standard(s):** EN ISO 13485:2016  
Medical devices - Quality management systems -  
Requirements for regulatory purposes  
(ISO 13485:2016)  
DIN EN ISO 13485:2016

**Facility(ies):** **Ningbo Tianbo First Aid Product Co., Ltd.,**  
Yushan Tou Village, Dongqiao Town, 315156 Yinzhou, Ningbo,  
PEOPLE'S REPUBLIC OF CHINA

See Scope of Certificate.

# EU-KONFORMITÄTSERKLÄRUNG

EU DECLARATION OF CONFORMITY  
(Gemäß/in accordance with EN ISO/IEC 17050-1)

Name und Anschrift des Importeurs und Händlers in Europa <i>Name and address of importer and distributor responsible in Europe</i>	<b>KSI International GmbH</b> Zellescher Weg 3 01609 Dresden Deutschland Germany
---	--

**DIESE KONFORMITÄTSERKLÄRUNG WIRD UNTER DER ALLEINIGEN VERANTWORTUNG UND PRODUKTHAFTUNG ERSTELLT VON:**  
*THIS DECLARATION OF CONFORMITY IS ISSUED UNDER THE SOLE AND PRODUCT LIABILITY RESPONSIBILITY OF:*

Name und Anschrift des Herstellers <i>name and address of manufacturer</i>	<b>TAIZHOU DONGHAIXIANG PROTECTIVE EQUIPMENT CO., LTD</b> No.3091 Du Nan Avenue Duqiao Town Linhai City Zhejiang Province P.R. China
---	--

Produktidentifikation <i>Product identification</i>	Produktname: Atemschutzmaske <i>Description of product: Protective mask</i> <b>Marke: DHX</b> <b>Brand: DHX</b> <b>Modell Nr: DHX9001</b> <b>Model no.: DHX9001</b> Produktfarbe und -typ: Weiß, nicht wiederverwendbar, gefaltet, partikelfilternde Halbmaske <i>Product colour and type: White, Non-reusable, folded, filtering half mask</i>
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Die Konformitätsbewertung erfolgte nach den wesentlichen Anforderungen vom Hersteller gemäß  
*The conformity assessment according to the essential requirements has been done by manufacturer according to*

EU-Rechtsvorschriften der Gemeinschaft <i>EU Community Legislation</i>	<b>Verordnung über persönliche Schutzausrüstung (PSA) (EU) 2016/425</b> <i>Personal Protective Equipment (PPE) Regulation (EU) 2016/425</i>  <b>Anhang II Kategorie III</b> in Verbindung mit <i>Annex II Category III in connection with</i>  <b>Anhang V (Modul B EU-Baumusterprüfungsbescheinigung)</b> <i>Annex V (Module B EU Type Examination Certification)</i> SGS Cert.-Nr. / <i>SGS Cert. no.:</i> F120/967053 und/ <i>and</i>  <b>Anhang VII (Modul C2 Produktionsüberwachung)</b> <i>Annex VII (Module C2 Production Monitoring)</i> SGS Cert.-Nr. / <i>SGS Cert. no.:</i> CN20/42527
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Harmonisierte Normen  
*Harmonised standards*

**Persönliche Schutzausrüstung EN 149:2001+A1:2009**  
*Personal protective equipment EN 149:2001 +A1:2009*  
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing  
Center - Test Report Nr./no.: SL52035261876901TX

Weitere Spezifikationen  
*Other specifications*

**Partikelfiltermaske, FFP2 NR**  
*Particle filtering mask, FFP2 NR*

**In Zusammenarbeit mit**  
*in cooperation with*

Benannte Stelle  
*Notified Body*

**SGS FIMKO OY, Notified Body 0598**  
Takomotie 8, FI-00380, Helsinki, Finland  
t +358 9 696 361 f +358 9 692 5474 [www.sgs.com](http://www.sgs.com)

**Diese Erklärung ist gültig bis zum 26. Januar 2026**  
*This declaration is valid until 26<sup>th</sup> January 2026*

UNTERZEICHNET FÜR UND IM NAMEN VON:  
*SIGNED FOR AND ON BEHALF OF:*

Ort und Datum der Ausgabe:  
*Place and date of issue:*

Linhai City, 26<sup>th</sup> January 2021

Unterschrift:  
*Signature:*

*Zhu Haifei*

Name, Funktion:  
*Name, function:*

Zhu Haifei, Management Representative

Firmenname:  
*Company name:*

TAIZHOU DONGHAIXIANG PROTECTIVE EQUIPMENT CO., LTD





## 取得国外标准认证或注册的医疗物资和非医用口罩生产企业检索

企业名称 (中文)	企业名称 (英文)	产品类别	产品名称/型号	统一社会信用代码	国外注册认证情况
台州东海翔防护用品有限公司	Taizhou donghaixiang Protective Equipment Co.,Ltd	医用口罩	Disposable medical mask (non-sterile)	91331082MA2DYPQ87Y	欧盟CE
台州东海翔防护用品有限公司	Taizhou Donghaixiang Protective Equipment Co.,Ltd	非医用口罩	DHX9001	91331082MA2DYPQ87Y	欧盟CE

[友情链接](#)

Certificate FI20/967053

## Taizhou Donghaixiang Protective Equipment Co.,Ltd

NO.3091 DU NAN AVENUE  
DUQIAO TOWN LINHAI CITY  
ZHEJIANG 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 29 October 2020 until 29 October 2025  
1. Certified since 29 October 2020

Authorised by



SGS FIMKO OY, Notified Body 0598

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t +358 9 696 361 f +358 9 692 5474 www.sgs.com



Page 1 of 2

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Certificate FI20/967053, continued

# Taizhou Donghaixiang Protective Equipment Co.,Ltd

## Regulation (EU) 2016/425

Module B, EU type-examination

Issue 1

PPE Product

DHX (logo) DHX9001, 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) 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:

Protective mask / DHX9001, Version 1, dated: 2020-09-03.

SGS Reference Number UK/CRS 242107.

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





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Certificate CN20/42527

The management system of

# Taizhou Donghaixiang Protective Equipment Co.,Ltd

NO.3091 DU NAN AVENUE  
DUQIAO TOWN LINHAI CITY  
ZHEJIANG PROVINCE  
CHINA

has been assessed and certified as meeting the requirements of

## Regulation (EU) 2016/425

Module C2

For the following activities

Manufacture of DHX (logo) DHX9001, 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 89/696/EEC.)

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

Authorised by

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## The Statement

Our “Donghaixiang Protective equipment Co.,Ltd. ” , hereby declare , “Ningbo Tianbo First Aid Product Co.,Ltd” is our investment shareholders, we are their masks production base factory , about the face mask FFP2 and 3 ply the disposable mask which will be produced in our factory for Ningbo Tianbo First Aid Product Co.,Ltd.The product could be considered as produced in Ningbo Tianbo First Aid Product Co.,Ltd., the whole production process can be supervised by the final customer.

**Donghaixiang Protective equipment Co.,Ltd.**

台州东海翔防护用品有限公司 2021-01-16  
TAIZHOU DONGHAIXIANG PROTECTIVE EQUIPMENT CO.,LTD.



中国认可  
国际互认  
检测  
TESTING  
CNAS L0599

**Test Report**                      **SL52035261876901TX**                      **Date: July 10, 2020**                      **Page 1 of 10**

TAIZHOU DONGHAIXIANG PROTECTIVE EQUIPMENT CO.,LTD  
NO.3091 DU NAN AVENUE DUQIAO TOWN LINHAI CITY ZHEJIANG PROVINCE CHINA

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

Sample Description : (A)Protective mask

Style No. : DHX9001

Sample Color : (A)WHITE

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

Sample Receiving Date : Jun 30, 2020

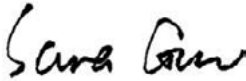
Testing Period : Jun 30, 2020 - Jul 10, 2020

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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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.      1 (86-21) 61402666      1 (86-21) 64956783      [www.sgs.com](http://www.sgs.com)  
17 Siding No. 888, Yixian Road, Lujiazui District Shanghai, China 200233      中国 - 上海 - 徐汇区宜山路888号3号楼      邮编: 200233      1 (86-21) 61402666      1 (86-21) 64956783      e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Test Result

**Personal Protective Equipment - 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



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

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

Test Requirement	Results	Comment
The total inward leakage consists of three components: face seal leakage, exhalation value leakage(if exhalation value fitted) and filter penetration. For particle filtering half masks fitted in accordance with the manufacturer's information, at least 46 out of the 50 individual exercise results (i.e. 10 subjects x 5 exercises) for total inward leakage shall be not greater than: 25% for FFP1, 11% for FFP2, 5% for FFP3  and, in addition, at least 8 out of the 10 individual wearer arithmetic means for the total inward leakage shall be not greater than: 22% for FFP1, 8% for FFP2, 2% for FFP3	Detail refer to Appendix 1	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(%)
Zhou	1	A.R.	5.68	6.28	6.79	5.60	6.45	6.16
Luo	2	A.R.	6.48	7.46	7.89	8.10	5.61	7.11
Lu	3	A.R.	6.28	4.89	6.09	6.59	6.35	6.04
Wang	4	A.R.	5.36	5.37	5.88	4.34	5.14	5.22
Bao	5	A.R.	7.33	7.76	6.98	6.03	7.49	7.12
Ding	6	T.C.	6.19	5.14	4.87	6.57	5.55	5.66
Li	7	T.C.	8.54	7.83	6.25	7.15	7.02	7.36
Chen	8	T.C.	4.34	4.42	7.18	6.35	5.85	5.63
Song	9	T.C.	5.80	5.99	7.42	7.34	6.53	6.62
Ye	10	T.C.	7.59	6.97	7.42	7.62	7.22	7.36

**Facial Dimension(mm)**

Subject	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
Ding	134	150	110	52



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Liu	120	135	117	50
Ye	126	137	105	52

**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	1	0.447
		2	0.502
		3	0.479
	Simulated wearing treatment	4	0.518
		5	0.461
		6	0.453
		7	0.674
		8	0.734
		9	0.694
Paraffin oil test	As received	10	1.508
		11	1.406
		12	1.473
	Simulated wearing treatment	13	1.428
		14	1.469
		15	1.527
		16	1.987
		17	1.862
		18	1.794

Flow conditioning : Single filter: 95.0 L/min



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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	Detail refer to Appendix 3	Pass
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.		

**Appendix 3: Summarization of Test Data**

**Flammability**

Condition	Sample No.	Result
As received	1	NIL
	2	NIL
Temperature conditioned	3	NIL
	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 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(%)
As received	1	0.4870
	2	0.4867
	3	0.4865
		Mean value:0.49



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**Clause 7.13 Head Harness**

(EN 149:2001+A1:2009, Clause 8.4 &amp; 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 &amp; 8.9.1 &amp; 8.3.4 &amp; 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	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 No 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 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.				Detail refer to Appendix 5	Meet FFP1, Meet FFP2, Meet FFP3
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(l/min)	1					2					3					
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
As received	Inhalation	30	0.4	0.5	0.4	0.4	0.4	0.4	0.5	0.4	0.5	0.4	0.5	0.4	0.5	0.5	0.4
		95	1.6	1.8	1.7	1.6	1.7	1.8	1.7	1.7	1.8	1.6	1.6	1.7	1.7	1.8	1.6
	Exhalation	160	2.5	2.7	2.6	2.5	2.5	2.6	2.7	2.6	2.5	2.6	2.6	2.7	2.6	2.7	2.6
Simulated wearing treatment	Flow rate(l/min)	4					5					6					
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
	Inhalation	30	0.4	0.5	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5	0.4	0.5	0.5	0.4	
95	1.7	1.9	1.8	1.7	1.7	1.8	1.7	1.8	1.9	1.7	1.7	1.8	1.7	1.9	1.7		
Exhalation	160	2.6	2.7	2.6	2.7	2.7	2.6	2.7	2.7	2.6	2.7	2.7	2.6	2.7	2.6		
Temperature conditioned	Flow rate(l/min)	7					8					9					
		A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	
	Inhalation	30	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	0.3	0.4	
95	1.6	1.8	1.7	1.6	1.6	1.6	1.7	1.7	1.8	1.7	1.8	1.7	1.8	1.8	1.7		
Exhalation	160	2.5	2.6	2.7	2.5	2.5	2.6	2.7	2.5	2.6	2.6	2.7	2.7	2.5	2.7	2.5	

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><b>Clause 7.17.2 Breathing resistance</b>  <b>Valved particle filtering half masks:</b>                      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><b>Valveless particle filtering half masks:</b>                      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> <p><b>Clause 7.17.3 Penetration of filter material</b>                      All types (valved and valveless) of particle filtering half masks claimed to meet the clogging requirement shall also meet the requirements.</p>	Optional for single shift device only	N.A.																				
<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> </thead> <tbody> <tr> <td></td> <td>%</td> <td>%</td> </tr> <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)

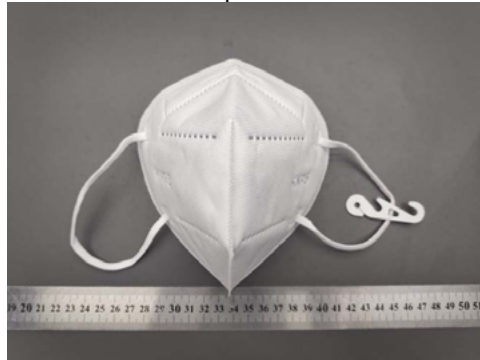
Test Requirement	Results	Comment
All demountable parts (if fitted) shall be readily connected and secured, where possible by hand	Comply	Pass

Test	Uncertainty
Total inward leakage	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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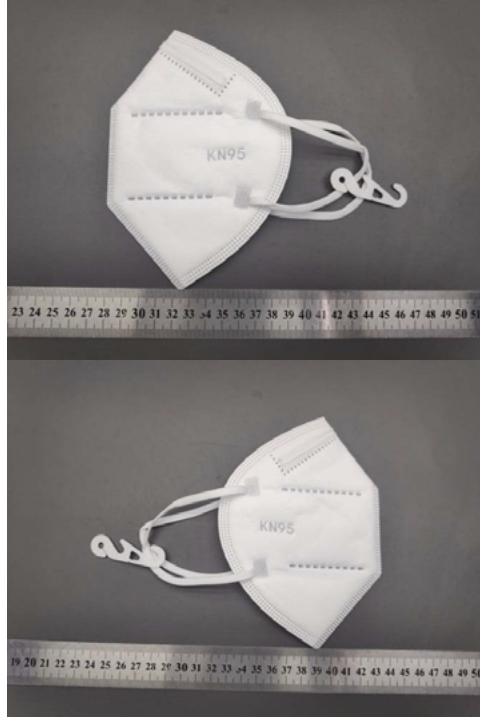
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Test Report

SL52045301486001TX

Date: November 04, 2020

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NO.3091 DU NAN AVENUE DUQIAO TOWN LINHAI CITY ZHEJIANG PROVINCE CHINA

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

Sample Description : (A)Melt-blown fabric: 25g P2 single

Sample Color : (A)WHITE

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

Sample Receiving Date : Oct 15, 2020

Testing Period : Oct 30, 2020 - Nov 04, 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).

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



Sara Guo (Account Executive)



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Test Report

SL52045301486001TX

Date: November 04, 2020

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Test Result

**Penetration of Filter Material**

(EN 13274-7:2019, Flow rate: 95 l/min)

Sample: A

**As received (One layer)**

Penetration of filter material (%)

	1#	2#	3#
Aerosol			
Paraffin oil	0.730	0.703	0.549

**After temperature conditioned and exposure test with a specified mass of test aerosol of 120mg) (One layer)**

Penetration of filter material (%)

	1#	2#	3#
Aerosol			
Paraffin oil	2.296	3.134	3.035

Remark:

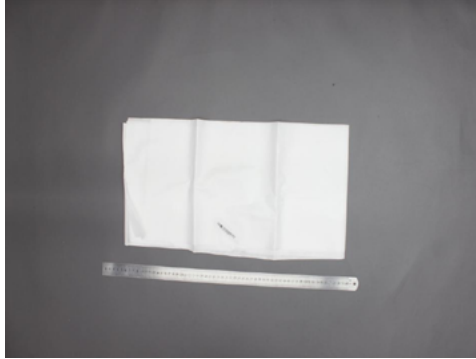
Number of specimens, flow rate, temperature condition and exposure test refer to parameter of EN 149:2001+A1:2009 clause 7.9.2 penetration of filter material.



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## Sample Photo



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