



AC 114

CERTYFIKAT BADANIA TYPU UE (MODUŁ B) EU TYPE-EXAMINATION CERTIFICATE (MODULE B)

Nr
No. CW/PPER/15/07/2020

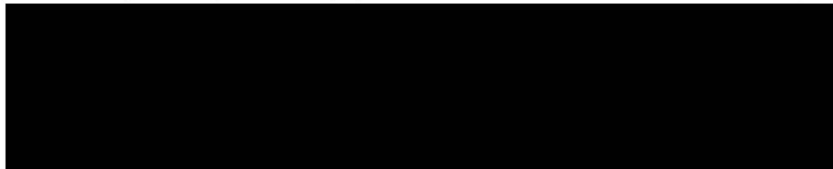
ZAŚWIADCZA SIĘ,

że Polski Rejestr Statków S.A. (PRS) przeprowadził procedurę badania typu wymienionego niżej wyrobu i stwierdził jego zgodność z wymaganiami określonymi w załączniku V do Rozporządzenia Parlamentu Europejskiego i Rady (UE) 2016/425 (PPE) w sprawie środków ochrony indywidualnej oraz uchylecia dyrektywy Rady 89/686/EEG, ze zmianami.

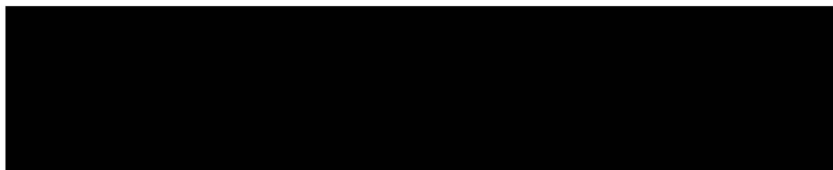
THIS IS TO CERTIFY

that Polski Rejestr Statków S.A. (PRS) did undertake the EU type-examination procedure for the product identified below which was found to be in compliance with the requirements of Annex V to the Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC, as amended.

Wnioskodawca
Applicant



Producent
Manufacturer



Typ wyrobu
Product type

Sprzęt ochrony dróg oddechowych. Sprzęt ochrony dróg oddechowych bez zasilania powietrzem. Półmaski filtrujące chroniące przed COVID-19.
Respiratory protective equipment. Non-powered air-purifying particle respirator.
Filtering half masks to protect against COVID-19.

Opis wyrobu
Product description

Jednorazowa maska ochronna KN95.
Disposable protective mask KN95.

Zastosowane normy
Specified standards

PN-EN 149+A1:2010
EN 149:2001+A1:2009

Niniejszy certyfikat pozostaje ważny do czasu unieważnienia przy zachowaniu warunków uznania (patrz str. 2).
This certificate remains valid unless cancelled or revoked, provided the approval conditions (see page 2) are complied with.

Data ważności
Expiry date

2021-07-02



Zastępca Dyrektora Pionu Certyfikacji
Certification Division Deputy Director

Przemysław Gałka

Gdańsk, 2020-07-03



Nr jednostki notyfikowanej
No. of notified body

1463

Polski Rejestr Statków S.A.
al. Gen. Józefa Hallera 126
80-416 Gdańsk, Poland

tel. (+48) (58) 346 17 00
fax (+48) (58) 341 77 69
e-mail: dc@prs.pl
www: http://www.prs.pl/

Wykaz dokumentacji
List of documents

1. Instrukcja użytkowania - zatwierdzona przez PRS dnia 2020-07-01.
2. Ocena ryzyka - zatwierdzona przez PRS dnia 2020-07-01.
3. Dokumentacja techniczna jednorazowej maski ochronnej KN95 - zatwierdzona przez PRS dnia 2020-07-01.
4. Raport z badań nr W202008641E wydany przez Zhejiang Light Industrial Products Inspection and Research Institute z akredytacją CNAS L6780 z dnia 2020-04-23.
5. Sprawozdanie z przeglądu PRS nr CW/MK/PPER/52/2020 z dnia 2020-07-02.

1. *Instuction of use - approved by PRS on 2020-07-01.*
2. *Risk analysis - approved by PRS on 2020-07-01.*
3. *Technical documentation protective mask KN95 - approved by PRS on 2020-07-01.*
4. *Test report No. W202008641E issued by Zhejiang Light Industrial Products Inspection and Research Institute with CNAS accreditation no. L6780 dated on 2020-04-23.*
5. *PRS Survey Report No. CW/MK/PPER/52/2020 dated on 2020-07-02.*

Miejsca produkcji
(inne niż podane na stronie 1)
Places of production
(different than given on page 1)Ograniczenia uznania
Approval limitations

1. Dane techniczne:
 - maska ochronna z regulowanym klipsem na nos,
 - maska ochronna wykonana z 5 warstwowej włókniny z filtrem z tkaniny,
 - wymiary: 106 x160 mm,
 - kolor: biały.
2. Maska ochronna przeznaczona do jednorazowego użytku.
3. Dokumentacja techniczna zatwierdzona w języku angielskim.
4. Maska ochronna oceniona zgodnie z procedurą określoną w Zaleceniu Komisji (UE) 2020/403 z dnia 2020-03-13 oraz RfU PPE-R/02.075 wersja 1.
5. Oznakowanie maski ochronnej oraz opakowanie zgodne z RfU PPE-R/02.075 wersja 1, punkt 4.1 i punkt 4.2.
6. Maska ochronna wyprodukowana tylko do ochrony przed COVID-19.

1. *Specifications:*
 - *protective mask with adjustable nose clip,*
 - *protective mask made with 5 layers non-woven fabric with melt-blown fabric filter,*
 - *size: 106 x160 mm,*
 - *color: white.*
2. *Protective mask shall not be used for more than one shift.*
3. *Technical documentation approved in English.*
4. *The protective mask evaluted in accordance with the Comission Recommendation (EU) 2020/403 dated 2020-03-13 and RfU PPE-R/02.075 version 1.*
5. *Marking of protective mask and package according to RfU PPE-R/02.075 version 1, point 4.1 and point 4.2.*
6. *This protective mask is manufactured for COVID-19 protection only.*

Warunki uznania
Approval conditions

1. Niniejszy certyfikat straci ważność po wprowadzeniu zmian lub modyfikacji w wyrobie bez uprzedniego uzgodnienia z PRS.
This certificate becomes invalid after changes or modifications to the product without prior agreement with PRS.
2. Znak zgodności może być umieszczony na uznanym wyrobie oraz może być wystawiona deklaracja zgodności tylko pod warunkiem, że łącznie z badaniem typu UE zostanie przeprowadzona ocena zgodności produkcji pod nadzorem jednostki notyfikowanej, według załącznika VII lub VIII wymienionego wyżej rozporządzenia.
The Mark of Conformity may only be affixed to the above type approved product and a manufacturer's Declaration of Conformity issued provided the production is assessed under surveillance of a notified body according to Annex VII or VIII of the a/m Regulation.



AC 114

**CERTYFIKAT ZGODNOŚCI Z TYPEM W OPARCIU O WEWNĘTRZNĄ KONTROLĘ
PRODUKCJI ORAZ NADZOROWANE KONTROLE PRODUKTU
W LOSOWYCH ODSŁĘPACH CZASU (Moduł C2)**

**CONFORMITY TO TYPE CERTIFICATE BASED ON INTERNAL PRODUCTION CONTROL
PLUS SUPERVISED PRODUCT CHECKS AT RANDOM INTERVALS (Module C2)**

Nr
No. CW/PPER/45/08/2020

Okres objęty certyfikatem
Period covered by the certificate

2020-08-20 – 2021-08-19

Dokumenty odniesienia:
General reference documents: Rozporządzenie UE 2016/425 dotyczące środków ochrony indywidualnej (PPE), załącznik VII
Regulation (EU) 2016/425 on personal protective equipment (PPE), Annex VII

Posiadacz certyfikatu
Certificate holder



Wyrób Product	Certyfikat badania typu UE EU Type-examination certificate	Normy zharmonizowane/Specyfikacje Harmonised standards/Specifications
Jednorazowa maska ochronna, Model: KN95 Disposable protective mask, Model: KN95	CW/PPER/15/07/2020	PN-EN 149+A1:2010 (EN 149:2001+A1:2009)

A Roczna ocena zgodności wyrobów z normą/specyfikacją i badanym typem
Annual assessment of products compliance with standard/specification and type-examined

1 Miejsca i daty wizyt
Visit locations and dates



2a Wyboru dokonał (imię, nazwisko)
Selection carried out by (Name)
Związek z jednostką notyfikowaną
Relationship to notified body

Marcin Koszorek (zdalnie/remote)
Ekspert Biura Certyfikacji Wyrobów i Osób
Products and Persons Certification Bureau Expert

2b Przedstawiciel firmy (imię, nazwisko)
Company representative (Name)
Stanowisko
Position



3 Związek pomiędzy wizytowaną firmą a posiadaczem certyfikatu badania typu UE
Relationship of company visited to EU type-examination certificate holder

☐ Posiadacz certyfikatu
Certificate holder

☒ Miejsce produkcji
Production site

☐ Inne miejsce produkcji
Secondary production site

☐ Importer
Importer

☐ Dystrybutor
Distributor

☐ Sprzedaż detaliczna
Retail outlet

☐ Europejskie biuro firmy
European office of the company

☐ Inny:
Other:

Wykaz środków ochrony indywidualnej
List of personal protection equipment

☒ Dostępny
Available

☐ Niedostępny
Not available

Wybór próbek
Sample selection

☒ Wybrano – Nr egz./partii:
Selected – lot/batch No.

200320 Production date: 2020/03/20

☐ Nie wybrano
Not selected

4 Wybór próbek
Sample selection

☒ Prawidłowy
Correct

☐ Nieprawidłowy
Incorrect

Wyniki badań
Result of tests

☒ Pozytywne
Positive

☐ Negatywne
Negative

5 Wybór próbek i badania wykazały zgodność z przywołanymi normami/specyfikacjami i badanym typem
Sample selection and testing demonstrated compliance with the reference standards/specifications and type-examined

☒ Tak
Yes

☐ Nie
No



Nr jednostki notyfikowanej
No. of notified body

1463

Polski Rejestr Statków S.A.
al. Gen. Józefa Hallera 126
80-416 Gdańsk, Poland

tel. (+48) (58) 346 17 00
fax (+48) (58) 346 03 92
e-mail: mailbox@prs.pl
www: http://www.prs.pl/

B Roczna ocena niejednorodności produkcji
Annual assessment of production non-homogeneity

1 Zastosowana metoda przy dokonaniu oceny
Method employed to perform assessment

- ☐ Inspekcja procesu produkcyjnego i zapisów z prób
On-site review of production and test records
- ☐ Audit kontroli procesu produkcyjnego
On-site audit of production control
- ☐ Ocena niejednorodności produkcji poprzez ocenę jednej dużej próbki
Production non-homogeneity assessed by selection of a single, large sample
- ☐ Ocena niejednorodności produkcji poprzez ocenę próbek w ciągu roku
Production non-homogeneity assessed by assessment of samples throughout the year

2a Ocenę przeprowadził (imię, nazwisko)

Assessment carried out by (Name) -----

Związek z jednostką notyfikowaną
Relationship to notified body -----

2b Przedstawiciel firmy (imię, nazwisko)

Company representative (Name) -----

Stanowisko
Position -----

3 Na podstawie przeprowadzonej oceny stwierdzono, że proces produkcyjny jest jednorodny
On the basis of the assessment, it has been concluded the production is homogeneous

☐ Tak
Yes

☐ Nie
No

C Podsumowanie
Conclusion

Uzasadnienie niezgodności
Justification of non-conformities

Nie było żadnych niezgodności / There were no non-conformities.

Wnioski jednostki notyfikowanej
Conclusions of notified body

Środek ochrony osobistej jest kompatybilny z typem określonym w certyfikacie badania typu UE.
Personal protective equipment is compatible with the type defined in the EC type-examination certificate.

Uwagi
Remarks

Półmaski filtrujące ocenione zgodnie z procedurą określoną w Zaleceniu Komisji (UE) 2020/403 z dnia 2020-03-13 oraz RfU PPE-R/02.075 wersja 1.
The filtering half masks evaluated in accordance with the Commission Recommendation (EU) 2020/403 dated 2020-03-13 and RfU PPE-R/02.075 version 1.

D Załączniki
Attachments

Sprawozdania z wizyty Nr
Visit reports No. CW/PPER/MK/110/2020 (zdalnie/remote)

Sprawozdania z badań Nr
Test reports No. Raport z badań nr CL/WBO/08/2020 wydany przez Polski Rejestr Statków S.A. Laboratorium Badawcze w dniu 2020-08-19.
Test report no CL/WBO/08/2020 issue by Polish Register of Shipping S.A. Testing Laboratory dated on 2020-08-19.

Ogólna ocena z rocznego nadzoru
Overall assessment of the annual surveillance

☒ Pozytywna
Positive ☐ Negatywna
Negative



Dyrektor Pionu Certyfikacji
Certification Division Director

Michał Chudziński

Michał Chudziński

Gdańsk, 2020-08-20

Test Report

SL52035285157101TX

Date: August 26, 2020

Page 1 of 10

CANGNAN COUNTY JIAWEI BAG MAKING FACTORY
NO.39-40, XIANGDONG VILLAGE, QIAN KU TOWN, CANGNAN COUNTY, WENZHOU CITY, ZHEJIANG PROVINCE

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

Sample Description : (A) Daily protective masks
Claimed : FFP3

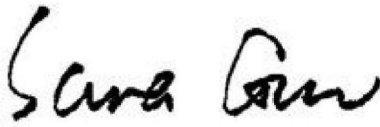
SGS Internal Ref.No. : CP20-040466
Sample Color : (A) WHITE
Item No. : Melt-blown fabric
Model No. : CNJW-2020
Manufacturer :
Supplier :
Other Info. : Batch No.: 20200728, Specifications: CNJW-2020
Material quality : double S25g non-woven fabric, 25g melt-blown fabric, 40g hot air cotton

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

Sample Receiving Date : Aug 06, 2020
Testing Period : Aug 06, 2020 - Aug 26, 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).

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)



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center (Shanghai)

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
t (86-21) 61402666 f (86-21) 64958763

www.sgs.com
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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center for Mechanical Safety

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

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

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.	6.65	6.19	6.60	5.87	5.15	6.09
Luo	2	A.R.	7.48	5.51	7.86	7.31	7.35	7.18
Lu	3	A.R.	5.12	4.78	7.51	6.19	7.09	6.14
Wang	4	A.R.	5.35	4.47	6.78	4.35	5.02	5.19
Bao	5	A.R.	7.91	7.42	7.40	6.96	6.36	7.21
Ding	6	T.C.	5.00	5.89	5.24	5.55	5.66	5.47
Li	7	T.C.	6.19	8.23	7.14	8.33	7.79	7.54
Chen	8	T.C.	7.40	4.43	6.20	4.95	5.27	5.65
Song	9	T.C.	7.16	5.84	6.89	7.13	6.25	6.65
Ye	10	T.C.	7.42	8.18	6.61	8.87	6.77	7.57

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center for Mechanical Safety

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

Ding	134	150	110	52
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
Classifica tion	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	0.526
		2	0.434
		3	0.472
	Simulated wearing treatment	4	0.503
		5	0.468
		6	0.452
	Mechanical strength +Temperature conditioned	7	1.234
		8	1.346
		9	1.174
Paraffin oil test	As received	10	0.512
		11	0.557
		12	0.607
	Simulated wearing treatment	13	0.532
		14	0.587
		15	0.519
	Mechanical strength +Temperature conditioned	16	2.374
		17	2.264
		18	2.472
Flow conditioning : Single filter: 95.0 L/min			



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center for Mechanical and Electrical

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

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
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	0.4640
	2	0.4637
	3	0.4625
		Mean value: 0.46



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
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

SGS-CTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center for Mechanical Safety

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

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 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	



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

SGS-CTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center for Mechanical Safety

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

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. <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	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
	Inhalation	30	0.4	0.5	0.5	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.5	0.4	0.4	0.5	0.5
Simulated wearing treatment	Inhalation	95	1.5	1.6	1.6	1.5	1.5	1.6	1.6	1.5	1.5	1.6	1.6	1.5	1.6	1.6	1.5
		160	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.8	2.8	2.7	2.7	2.8	2.7
	Exhalation	160	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.8	2.7	2.8	2.8	2.7	2.8
Temperature conditioned	Flow rate(l/min)		4					5					6				
			A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
	Inhalation	30	0.5	0.5	0.4	0.4	0.3	0.4	0.3	0.4	0.5	0.5	0.4	0.5	0.5	0.4	0.5
	Inhalation	95	1.6	1.5	1.6	1.6	1.6	1.5	1.6	1.5	1.6	1.6	1.5	1.6	1.5	1.6	1.5
		160	2.7	2.7	2.8	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.8	2.8	2.7	2.8
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	0.4	0.5	0.4	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.4	0.5	0.4	0.5	0.4
	Inhalation	95	1.4	1.5	1.5	1.4	1.5	1.5	1.5	1.4	1.5	1.5	1.5	1.4	1.5	1.4	1.5
		160	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.7	2.7	2.8	2.8	2.7

A: facing directly ahead; B: facing vertically upwards; C: facing vertically downwards; D: lying on the left side; E: lying on the right side



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

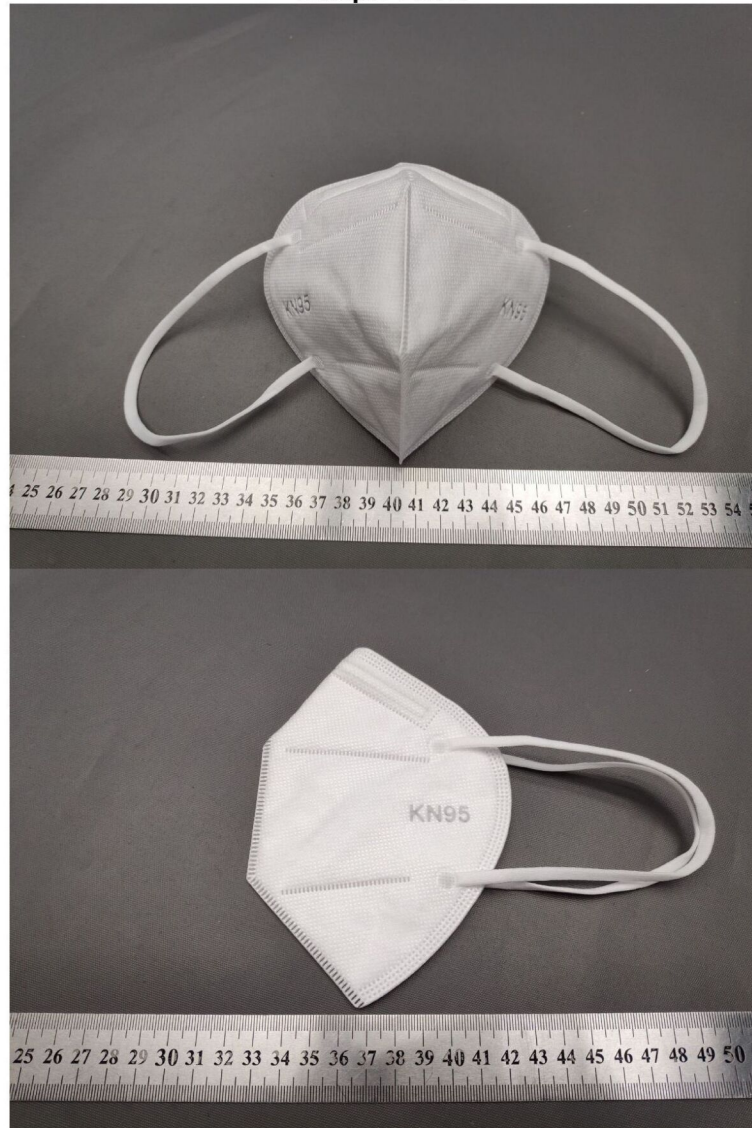
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center for Mechanical Safety

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763 www.sgsgroup.com.cn
t (86-21) 61402666 f (86-21) 64958763 e sgs.china@sgs.com

Sample Photo



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

SGS-CTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center for Textiles and Apparel

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
t (86-21) 61402666 f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com



End of Report



SGS-CTC (Shanghai) Co., Ltd.
Testing Center for Textiles and Apparel

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

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

3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233
中国·上海·徐汇区宜山路889号3号楼 邮编: 200233

t (86-21) 61402666 f (86-21) 64958763
t (86-21) 61402666 f (86-21) 64958763

www.sgsgroup.com.cn
sgs.china@sgs.com