SERIX FFP2 MASK







SERIX FFP2 MASK

Particle filtering half mask FFP2 NR Partikelfiltrierende Halbmaske FFP2 NR Mască de filtrare particule tip FFP2 NR Ημιμάσκα φιλτραρίσματος σωματιδίων FFP2 NR Polomaska filtrující částice FFP2 NR Полумаска за филтриране на частици FFP2 NR

Characteristics / Elgenschaften / Caracteristici / Χαρακτηριστικά / Vlastnosti / xapaκτερικοτικα



5 Layers, BFE≥95% 5 Schichten, BFE≥95% 5 Straturi, BFE≥95% 5 στρώσεις, BFE≥95% 5 vrstev, BFE≥95 % 5 cnos, BFE≥95%



Double nasal metal rod Doppelnasen Metalistab Tijä metalică nazală dublă Διπλή ρινική μεταλλική ράβδος Dvojitá nosni kovová tyč Двоен носов метален прът



20 individualiy packaged masks 20 einzeln verpackte Masken 20 mäşti ambalate individual 20 aropunkéς отиякциори́хес ри́оккес 20 Jednotlivé balených masek 20 индивидуално опаковани маски



White Weiß Alb áотгро Bílý Бяла

Instructions / Anweisungen / Instrucțiuni / Οδηγίες / Instrukce / Инструкции



[EN] Make sure the metalnose clip is facing

TEL Stellen Sie sicher, dass der Nasencip aus Metal nach oben zeigt. (RC) Asiguraf-vä cä dema metalica pantru nas este orientatä in sus. (GR) BcRouwBertr ön tro (GR) BcRouwBertr ön tro (C2) Uistette se, že kovovy noani klip směrtue nahoru. (C2) Uistette se, že kovovy noani klip směrtue nahoru. (C2) Uistette se, že kovovy noani klip směrtue nahoru.



[EN] Put on the mask and fasten the ear flaps. fit the face completely [DE] Setzen Sie die Maske (DE] Passen Sie die auf und befestigen Sie die Ohrenklappen. das Gesicht an.

Coreinaspien: (RC) Puneji masca și (RC) Augei masca și (RC) Augei masca și (RC) Augei masca și (RC) Augei masca și mtruțiva tou aunoù. (CZ) Vaasde maska a Munou Toreina de (CZ) Vaasde maska a Munou Toreina de (CZ) Usarde maska a Munou Toreina de (CZ) Usarde maska a do CZ) Vaasde maska a Munou Toreina de (CZ) Usarde maska a do CZ) Vaasde maska a d



[EN] Adjust the mask to fit the face completely. DE: Passen Sie die Maske voliständig an das Gesicht an. [RO] Ajustaji masca pentru as e potivi complet pe fatå. [RR] Προσαρμόστε τη μάσκα ώστε να ταιρπάζει τλάρως στο πρόσωπο. [C2] Upravte masku tak, aby zoela sedéla machate hamsme ha mache hamsme ha nacke hamsme ha nacke hamsme ha nacket hamsme ha nacket hamsme ha nacket.



[EN] Press the nose clip against the nose bridge. [DE] Drücken Sie die Nasenklammer gegen den Nasenrücken. (RO) Apäsati clema peritru nas pe puntea nasului. (BR) Πίέστε το κλιπ

μότης πάνω στη γέφυρα της μύτης. [C2] Pfitlačte nosni sponu proti hibetu nosu. [BG] Πριστικατετε μιμητικατε зα носа κъм ιμοτα μα носа.



MADE IN P.R.C

[EN] Cover the mask with your hands, exhale, inhale and adjust the mask until no gas leaks out. [DE] Bedecken Sie die Maske mit Ihren Händen, atmen Sie aus, atmen Sie ein und passen Sie die Maske an, bis kein Gas austrit. [RO] Acopertij masca cu mänite, exprati Inspirat si

портисурани пасео от пателе у regist masca pánt čánd nu mai lese gaz. Inspirat y regist masca pánt čánd nu mai lese gaz. (GR) Koklyne m jučova ju to žybra ora, csmrvične, icomveložne kai npooraputorie n udoxa kybra orasku rukama, vydechněte, nadechněte se a upravuje masku rukama, vydechněte, nadechněte se a upravuje masku dokud nebudeunika žádný plyn. (BG) Покрийте маската с раци, акте и рагулирайте маската, goras ne и вкляте Gaz.









CERTYFIKAT ZGODNOŚCI Z TYPEM W OPARCIU O WEWNĘTRZNĄ KONTROLĘ PRODUKCJI ORAZ NADZOROWANE KONTROLE PRODUKTU W LOSOWYCH ODSTĘPACH 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/7/04/2021 Okres objęty certyfikatem Period covered by the certificate

2021-04-02 - 2022-04-01

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

Posiadacz certyfikatu Certificate holder Fangang To

Anhui Sunshine Home Textile Co., Ltd. Fangang Town, East Industrial Park,

Tongcheng City, Anhui Province, China

	Tongcheng City, Annu	ll Province, China.	
	rrób oduct	Certyfikat badania typu UE EU Type-examination certificate	Normy zharmonizowane/Specyfikacje Harmonised standards/Specifications
M	aska Ochronna , model: ZC-2021	CW/PPER/17/03/2021	PN-EN 149+A1:2010
(kl	asa FFP2 NR).		EN 149:2001+A1:2009
Pro	otective Mask, Model: ZC-2021		
	ass FFP2 NR).		
A	Roczna ocena zgodności wyrobów z norm Annual assessment of products compliano Miejsca i daty wizyt		
1	Visit locations and dates	Anhui Sunshine Home Text	tile Co., Ltd.
2a	Wyboru dokonał (imię, nazwisko) Selection carried out by (Name)	Zbigniew Orłowski	
	Związek z jednostką notyfikowaną Relationship to notified body	Ekspert Biura Certyfikacji Wy	robów i Osób
		Products and Persons Certific	ation Bureau Expert
2b	Przedstawiciel firmy (imię, nazwisko) Company representative (Name)	Zhang Chi	
	Stanowisko Position	Project Manager	
3	Związek pomiędzy wizytowaną firmą a posiadaczem Relationship of company visited to EU type-examina		
	Posiadacz certyfikatu Miejsce prod Certificate holder Production s	dukcji Inne miejsce produkc ite Secondary production	
	Sprzedaż detaliczna Retail outlet	biuro firmy fice of the company	□ Inny: Other:
	Wykaz środków ochrony indywidualnej List of personal protection equipment	∑ Dostępny Niedostęp Available Not availa	
	Wybór próbki Wybrano – Nr egz./partii: Sample selection Selected – lot/batch No.	ZC-2021 & ZC-2021BE, BK, F	R, Y, NB, G – 03/2021 \square Nie wybrano Not selected
4		prawidłowy Wyniki ba orrect Result of t	
5	Wybór próbki i badania wykazały zgodność z przywc Sample selection and testing demonstrated complian and type-examined		

Nr jednostki notyfikowanej No. of notified body	Polski Rejestr Statków S.A. al. Gen. Józefa Hallera 126	tel. (+48) (58) 346 17 00 fax (+48) (58) 346 03 92
No. Of holified body	80-416 Gdańsk, Poland	e-mail: mailbox@prs.pl
1463		www: http://www.prs.pl/

				011/11/210/17	0 IT LOLL
В		ejednorodności produ ent of production non-			
1	Zastosowana metoda pr Method employed to pe				
	Inspekcja procesu p On-site review of pi	produkcyjnego i zapisów roduction and test record	z prób ds		
	Audit kontroli proce				
	Ccena niejednorod	ności produkcji poprzez	ocenę jednej dużej próbki election of a single, large sample		
	Ccena niejednorod	ności produkcji poprzez	ocenę próbek w ciągu roku ssessment of samples throughout the year		
2a	Ocenę przeprowadził (in Assessment carried out l	nię, nazwisko)			
	Związek z jednostką noty Relationship to notified l	yfikowaną			
2b	Przedstawiciel firmy (imi Company representative				
	Stanowisko <i>Position</i>				
3			no, że proces produkcyjny jest jednorodny uded the production is homogeneous	Tak Yes	□ ^{Nie} No
С	Podsumowanie Conclusion				
	Uzasadnienie niezgodno Justification of non-confe				
	Nie było żadnych ni	ezgodności / There	were no non-conformities.		
	Wnioski jednostki notyfil Conclusions of notified b				
	Środek ochrony oso	bistej jest kompaty	bilny z typem określonym w certyfikacie badania tyj	pu UE.	
	Personal protective	equipment is comp	atible with the type defined in the EU type-examina	tion certificate.	
	Uwagi Remarks				
			jednorazowego użytku.		
	2. Dokumentacja te	chniczna zatwierdzo	ona w języku angielskim.		
	1. Filtering Half Mas 2. Technical docume		for more than one shift. n English.		
D	Załączniki Attachments				
	awozdania z wizyty Nr t reports No.	CW/ZO/PPER/38/	2021 dated 2021-04-02.		
	awozdania z badań Nr t reports No.	2021-04-02.	CL/PCLB8/3/4/2021 wydany przez Laboratorium Ba		
		Test report no. CL,	/PCLB8/3/4/2021 issued by Testing Laboratory PRS .	S.A. on 2021-04	-02.







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

Nr No. CW/PPER/17/03/2021

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 uchylenia dyrektywy Rady 89/686/EWG, 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	Anhui Sunshine Home Textile Co., Ltd. Fangang Town, East Industrial Park, Tongcheng City, Anhui Province, China.
Producent Manufacturer	Anhui Sunshine Home Textile Co., Ltd. Fangang Town, East Industrial Park, Tongcheng City, Anhui Province, China.
Typ wyrobu Product type	Sprzęt ochrony układu oddechowego. Półmaski filtrujące do ochrony przed cząstkami. Półmaska filtrująca, przeciwpyłowa bez zaworu. Respiratory protective devices. Filtering half masks to protect against particles. Type Dust Particle Filtering Half Mask without valve.
Opis wyrobu Product description	Maska Ochronna , model: ZC-2021 (klasa FFP2 NR).
	Protective Mask, Model: ZC-2021 (class FFP2 NR).
Zastosowane normy Specified standards	PN-EN 149+A1:2010 EN 149:2001+A1:2009
Niniejszy certyfikat pozos This certificate remains ve	taje ważny do czasu unieważnienia przy zachowaniu warunków uznania (patrz str. 2). alid unless cancelled or revoked, provided the approval conditions (see page 2) are complied with.

Data ważności Expiry date	2026-03-09			
		A	Mil	Dyrektor Pionu Certyfikacji Certification Division Director
Gdańsk, 2021-03-	-10	VPRC		Michał Chudziński
$\boldsymbol{C}\boldsymbol{E}$	Nr jednostki notyfikowanej No. of notified body	1936 JEDNOSTKA	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
	1463	NOTYFIKOWANA NR 1463	80-410 Gualisk, Folanu	www: http://www.prs.pl/

CW/PPER/17/03/2021

Wykaz dokumentacji List of documents

- 1. Umowa w sprawie przeprowadzenia badania typu UE nr: 159/2021 z dnia 2021-03-08.
- 2. Instrukcja użytkowania zatwierdzona przez PRS S.A. dnia 2021-03-09.
- 3. Ocena ryzyka zatwierdzona przez PRS S.A. dnia 2021-03-09.
- Dokumentacja techniczna "Maski ochronnej , model: ZC-2021" zatwierdzona przez PRS S.A. dnia 2021-03-09.
 Raporty z badań nr PTC21022604701C-EN01 z dnia 2021-03-05, oraz PTC21022604702C-EN01, PTC21022604703C-EN01,
 - PTC21022604704C-EN01, PTC21022604701C-EN01 z dnia 2021-03-05, oraz PTC21022604702C-EN01, PTC21022604703C-EN01, PTC21022604704C-EN01, PTC21022604706C-EN01 i PTC21022604707C-EN01 z dnia 2021-03-06, wydane przez Precise Testing & Certification (Guangdong) Co., Ltd. z akredytacją CNAS L5772.
- Sprawozdanie z przeglądu PRS S.A. nr CW/ZO/PPER/25/2021 z dnia 2021-03-10.
- 1. EU type examination contract No: 159/2021 dated 2021-03-08.
- 2. Instuction of use approved by PRS S.A. on 2021-03-09.
- 3. Risk analysis approved by PRS S.A. on 2021-03-09.
- 4. Technical documentation "Protective Mask, Model: ZC-2021" approved by PRS S.A. on 2021-03-09.
- Test reports No. PTC21022604701C-EN01 dated 2021-03-05 and PTC21022604702C-EN01, PTC21022604703C-EN01, PTC21022604704C-EN01, PTC21022604705C-EN01, PTC21022604706C-EN01, PTC21022604707C-EN01 dated 2021-03-06 issued by Precise Testing & Certification(Guangdong) Co., Ltd. with CNAS accreditation no. L5772.
- 6. PRS S.A. Survey Report No. CW/ZO/PPER/25/2021 dated 2021-03-10.

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

Ograniczenia uznania Approval limitations

- 1. Dane techniczne:
- a) maska ochronna z regulowanym klipsem na nos,
- b) klips na nos montowany wewnątrz maski ochronnej,
- c) maska ochronna wykonana z 5 warstwowej włókniny z filtrem z tkaniny,
- d) maska ochronna wyposażona w zauszniki,
- e) maska ochronna bez zaworu,
- f) wymiary: 108 mm \pm 5 mm x 158 mm \pm 5 mm,

g) kolory:

oznaczenie modelu	maska ochronna	zauszniki	klips na nos	zawór
ZC-2021	biała	białe	n/d	n/d
ZC-2021BE	niebieska	białe	n/d	n/d
ZC-2021BK	czarna	białe	n/d	n/d
ZC-2021R	czerwona	białe	n/d	n/d
ZC-2021Y	żółta	białe	n/d	n/d
ZC-2021NB	granatowa	białe	n/d	n/d
ZC-2021G	zielona	białe	n/d	n/d

2. Półmaska filtrująca przeznaczona do jednorazowego użytku.

3. Dokumentacja techniczna zatwierdzona w języku angielskim.

1. Specifications:

- a) protective mask with adjustable nose clip,
- b) nose clip mounted inside the protective mask,
- c) protective mask made with 5 layers non-woven fabric with melt-blown fabric filter,

d) protective mask with ear loops,

- e) protective mask without valve,
- f) size: 108 mm ± 5 mm x 158 mm ± 5 mm,

g) colors:

particular model	protective mask	ear loops	nose clip	valve
ZC-2021	white	white	NA	NA
ZC-2021BE	blue	white	NA	NA
ZC-2021BK	black	white	NA	NA
ZC-2021R	red	white	NA	NA
ZC-2021Y	yellow	white	NA	NA
ZC-2021NB	navy blue	white	NA	NA
ZC-2021G	green	white	NA	NA

2. protective mask shall not be used for more than one shift.

3. Technical documentation approved in English.

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.

EU DECLARATION OF CONFORMITY

1. Personal protective equipment: Protective Mask (Models: ZC-2021, ZC-2021BE, ZC-2021BK, ZC-2021R, ZC-2021Y, ZC-2021NB, ZC-2021G), Class: FFP2 NR.

2. Name and address of the manufacturer:

Name: Anhui Sunshine Home Textile Co., Ltd.

Address : Fangang Town East Industrial Park, Tongcheng City, Anhui Province, China

3. This declaration of conformity is issued under the sole responsibility of the manufacturer: Anhui Sunshine Home Textile Co., Ltd.

4. Object of the declaration is: Protective Mask (Models: ZC-2021, ZC-2021BE, ZC-2021BK, ZC-2021R, ZC-2021Y, ZC-2021NB, ZC-2021G), Class: FFP2 NR for respiratory protection against particular.

5. The object of the declaration described in point 4 is in conformity with the relevant Union Harmonization legislation: REGULATION (EU) 2016/425 on personal protective equipment and repealing Council Directive 89/686/EEC.

6. Protective Mask (Models: ZC-2021, ZC-2021BE, ZC-2021BK, ZC-2021R, ZC-2021Y, ZC-2021NB, ZC-2021G) meets the FFP2 NR requirements of the harmonized standard EN 149:2001+2009 used in order to confirm the conformity with the relevant Union harmonization legislation: RGULATION (EU)2016/425 on personal protective equipment and repealing Council Directive 89/686/EE.

7. The notified body: NB 1463- POLSKI REJESTR STATKOW S.A..

8. Certification Module: EU TYPE EXAMINATION (Module B) + INTERNAL PRODUCTION CONTROL PLUS SUPERVISED CONTROL OF PRODUCTS AT ALEATORY INTERVALS (Module C2)

Issued by notified body: NB 1463- POLSKI REJESTR STATKOW S.A., with address: AI. Gen. Jozefa Hallera 126

80-416 GDANSK, Country : Poland

Signed for and on behalf of: Anhui Sunshine Home Textile Co., Ltd.

Fangang Town East Industrial Park, Tongcheng City, Anhui Province, China

Place and date of issue:

Tongcheng City, Anhui Province, China

2021





∃描全能王 创建





国际互认 TESTING **CNAS L5772**

Test Report

EN 149:2001+A1:2009 protective devices. Filtering half masks to protect against particles. Requirements, testing, marking

Product:	Protective Mask
Report No.:	PTC21022604701C-EN01
Client:	Anhui Sunshine Home Textile Co., LTD.
Client Address:	Fangang town east industrial park, Tongcheng City, Anhui Province, China
Manufacturer:	Anhui Sunshine Home Textile Co., LTD.
Manufacturer Address:	Fangang town east industrial park, Tongcheng City, Anhui Province, China
Contact:	Zhang Chi
Model(s):	ZC-2021
Classification:	FFP2 NR
Date of Tests:	2021.03.01~2021.03.05

Signed for and on Behalf of PTC

Prepare by:

Checked by:

FICATION ŝ Approved by:

me

in Ma

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> Precise Testing & Certification (Guangdong) Co., Ltd. (PTC)
>
> Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.
>
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> Tel: 86-769-38808222
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> Fax: 86-769-38826111
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>
> http:// www.ptc-testing.cor
>
> http:// www.ptc-testing.com



Report No.: PTC21022604701C-EN01

Issue Date: Mar.05, 2021 Page 2 of 14

Summary of assessment

Clause	Assessment
7.3 Visual inspection	NOT TESTED
7.4 Packaging	PASS
7.5 Material	PASS
7.6 Cleaning and disinfecting	N/A
7.7 Practical performance	PASS
7.8 Finish of parts	PASS
7.9.1 Total inward leakage	PASS
7.9.2 Penetration of filter material	PASS
7.10 Compatibility with skin	PASS
7.11 Flammability	PASS
7.12 Carbon dioxide content of the inhalation air	PASS
7.13 Head harness	PASS
7.14 Field of vision	PASS
7.15 Exhalation valve	N/A
7.16 Breathing resistance	PASS
7.17 Clogging	N/A
7.18 Demountable parts	0_0_N/A_0
9 Marking	NOT TESTED

Remark:

PASS: comply with requirement of standard N/A: not application NOT TESTED: the clause were not required

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Report No	.:PTC21022604701C-EN01 Issue D	ate: Mar.05, 2021	Page 3 of 14
Test Resu	it: 20 20 20 20 20 20 20 20		
	Requirement	Test Result	Conclusio
7.3 Visual	inspection		
The visual	inspection shall also include the marking and the informative the manufacturer.	tion Not tested	Not tested
7.4 Packag	Jing		
	ering half masks shall be offered for sale packaged in suc	h a In accordance with the	Bass
	ey are protected against mechanical damage and	requirement.	Pass
contaminat	ion before use.	requirement.	
7.5 Materia	1 40 60 60 60 60 60 60 60 60 60 60 60 60 60		
	sed shall be suitable to withstand handling and wear ove	r the	
	which the particle filtering half mask is designed to be use	No mechanical	
Any motori	al from the filter media released by the air flow through	undergoing the	
	ot constitute a hazard or nuisance for the wearer.	conditioning	
		described in	Pass
After under	going the conditioning described in 8.3.1 none of the par	8.3.1,	F 435
filtering half	f masks shall have suffered mechanical failure of the face	No collapse when	
or straps.		accordance with	
		8.3.1 and 8.3.2.	
	litioned in accordance with 8.3.1 and 8.3.2 the particle filt shall not collapse.	tering	
	ng and disinfecting		
	le filtering half mask is designed to be re-usable, the	Single shift use only	N/A
	sed shall withstand the cleaning and disinfecting agents a	and	
procedures	to be specified by the manufacturer.		
7.7 Practic	cal performance		
The particle	e filtering half mask shall undergo practical performanc	e tests No imperfections	Pass
	stic conditions		
7.8 Finish	of parts		
	e device likely to come into contact with the wearer sha	No sharp edges or	Pass
	dges or burrs.	burrs.	8. 208
	eport is issued according to the general clauses in www.ptc-testing.com by efined in the general service clauses. The report is only responsible for "		



Report No.: PTC21022604701C-EN01

Issue Date: Mar.05, 2021

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7.9.1 Total inward leakage

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.

7.9.2 Penetration of filter material

The penetration of the filter of the particle filtering half mask shall meet the requirements of Table 1.

20 20	Sodium chloride test	Paraffin oil test 95
	95 l/min	l/min
FFP1	≤ 20%	≤ 20%
FFP2	≤ 6%	≤ 6%
FFP3	≤ 1%	≤ 1%

FFP2, Test results are shown in Annex A Table 7.9.1-A&B

Pass

FFP2 , Test results are shown in Annex A Table 7.9.2.

Pass

7.10 Compatibility with skin

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.

7.11 Flammability

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.

7.12 Carbon dioxide content of the inhalation air

The carbon dioxide content of the inhalation air (dead space) shall not exceed an average of 1,0 % (by volume)

7.13 Head harness

The head harness shall be designed so that the particle filtering half mask can be donned and removed easily.

The head harness shall be adjustable or self-adjusting and shall be

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No irritation or any other adverse effect to health.

Test results are

shown in Annex A

Table 7.11.

Pass

Pass

Pass

Test results are shown in Annex A Table 7.12.

Head harness can be donned and removed easily, adjustable or self-adjusting and

Deed

Pass



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sufficiently robust to hold the particle filtering half mask firmly in position and be capable of maintaining total inward leakage requirements for the device.

7.14 Field of vision

The field of vision is acceptable if determined so in practical performance tests.

7.15 Exhalation valve

A particle filtering half mask may have one or more exhalation valve(s), which shall function correctly in all orientations.

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.

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.

When the exhalation valve housing is attached to the faceblank, it shall withstand axially a tensile force of 10 N applied for 10 s.

7.16 Breathing resistance

8 8 8 8 V	Maximun	n permitted resist	ance (mbar)	
Classification	Inhalation		Exhalation	
8 6 6	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	

FFP2. Test results are shown in Annex A Table 7.16.

Single shift use

only.

Pass

7.17 Clogging

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

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have sufficiently robust to hold the particle filtering half mask firmly.

Pass the practical performance tests.

Pass

No exhalation valve

N/A



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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

7.17.3 Penetration of filter material

<u> </u>	Sodium chloride test	Paraffin oil test 95
.0.0	95 l/min 0	I/min O
SFFP1	≤ 20%	≤ 20%
FFP2	≤ 6%	≤6%
FFP3	≤ 1%	≤ 1%

7.18 Demountable parts

All demountable parts (if fitted) shall be readily connected and secured, where possible by hand

9 Marking

9.1 Packaging

The following information shall be clearly and durably marked on the smallest commercially available packaging or legible through it if the packaging is transparent.

9.1.1 The name, trademark or other means of identification of the manufacturer or supplier.

9.1.2 Type-identifying marking.

9.1.3 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable.

Example: FFP2 R D.

9.1.4 The number and year of publication of this European Standard.9.1.5 At least the year of end of shelf life. The end of shelf life may be informed by a pictogram as shown in Figure 12a, where yyyy/mm indicates the year and month.

9.1.6 The sentence 'see information supplied by the manufacturer', at

least in the official language(s) of the country of destination, or by using

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Not tested

No demountable

parts.

Not tested



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the pictogram as shown in Figure 12b.

9.1.7 The manufacturer's recommended conditions of storage (at least the temperature and humidity) or equivalent pictogram, as shown in Figures 12c and 12d.

9.1.8 The packaging of those particle filtering half masks passing the dolomite clogging test shall be additionally marked with the letter "D". This letter shall follow the classification marking preceded by a single space.

9.2 Particle filtering half mask

Particle filtering half masks complying with this European Standard shall be clearly and durably marked with the following:

9.2.1 The name, trademark or other means of identification of the manufacturer or supplier.

9.2.2 Type-identifying marking.

9.2.3 The number and year of publication of this European Standard.

9.2.4 Classification

The appropriate class (FFP1, FFP2 or FFP3) followed by a single space and then: "NR" if the particle filtering half mask is limited to single shift use only. Example: FFP3 NR, or "R" if the particle filtering half mask is re-usable. Example: FFP2 R D.

9.2.5 If appropriate the letter D (dolomite) in accordance with clogging performance. This letter shall follow the classification marking preceded by a single space.

9.2.6 Sub-assemblies and components with considerable bearing on safety shall be marked so that they can be identified.

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Annex A: Summarization of Test Data

Table 7.9.1-A: Inward Leakage Test Data

Test specification: EN 149:2001+A1:2009 Clause 8.5

Subject	Sample No.	Condition	Walk (%)	Head Side/side (%)	Head up/down (%)	Talk (%)	Walk (%)	Mean (%)
Lv	1	A.R	5.5	4.9	2.8	5.8	6.5	5.1
Ý LI Ý	2	A.R	6.3	6.9	6.4	7.5	7.9	7.0
Zhong	3	A.R	2.9	2.9	2.6	2.6	2.7	2.7
Xu	4	A.R	4.0	2.5	2.5	2.3	2.1	2.7
Ма	5	A.R	4.0	2.6	2.9	3.7	3.6	3.4
Chen	6	T.C	4.1	3.3	2.9	2.7	2.2	3.0
Chen	7	T.C	2.0	2.7	2.6	2.7	2.8	2.6
Zhuo	8	T.C	2.3	2.2	3.1	4.1	2.5	2.8
Chen	9	T.C	7.1	5.2	4.7	4.2	4.6	5.2
Zhang	10	T.C	3.5	3.0	2.9	3.3	4.1	3.4

Table 7.9.1-B: Facial dimension

Subject	Face Length	Face Width	Face Depth	Mouth Width
Lv	113	139	104	53
li X ^Q	120	135 112		55
Zhong	108	135	106	56
Xu	120	150	120	70
Ma	130	170	130	80
Chen	110	160	90	40
Chen	115	145 110		50
Zhuo	103	146	100	50
Chen	110	145	95	40
Zhang	144	141	101	54

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Table 7.9.2: Penetration of filter material

Test specification: EN 149:2001+A1:2009 Clause 8.11

Aerosol	Condition	Sample No.	Penetration (%)	Assessmen
N Nº Nº 3	10 10 20 20 20 A	N 11 N	0.1	5 5 6
	As received	12	0.1	
रे रे रे र	TO OT OT OT	13	0.1	\$`\$`\$
x0 x0 x0	0 10 10 10 10	0 14	0.1	x0 x0
Sodium chloride test	Simulated wearing treatment	15	0.2	8.8.8
1° 1° 1° 1	(c) %c) %c) %c	16	0.2	50 50 6
		17	0.1	
లో లో లో లే	Mechanical strength + Temperature conditioned	18	0.1	\$`\$`\$
XO XO XO ,		19	0.10	10 20
5 5 5 5 5	8.8.8.8.	20	0.1	Pass
10 10 10 S	As received	21	0.1	5° 5° 3
		22	0.1	
8 8 8 8 8		23	0.1	8 6 4
Paraffin oil test	Simulated wearing treatment	24	0.10	x0 x0 ,
२、२、२、२	. 6. 6. 6. 6.	25	0.1	1 2 1 2 2
10 10 10 J	6 x x x x x	26	0.4	10 Nº 30 3
	Mechanical strength + Temperature conditioned	27	0.3	
5 5 5 5 5		28	0.4	1 6 6 6

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Table 7.11: Flammability

Test specification: EN 149:2001+A1:2009 Clause 8.6

Condition	Sample No.	Result	Assessment
10 10 10 10 X	29	No burn	to the the the
As received	0 _0 30 _0 _0	O No burn	S S S S
Television	31	No burn	– Pass
Temperature conditioned	32	No burn	\$ \$ \$ \$ \$

Table 7.12: Carbon dioxide content of the inhalation air

Test specification: EN 149:2001+A1:2009 Clause 8.7

Condition	Sample No.	Re	esult (%)	Assessment
10 10 10	33	0.05		
As received	34	0.05	Mean value:	Pass
	35	0.05	0.05	1 1 1 1 1

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2 2	Flow Ra	te	2		36			2		37			Ŕ		38		
	30 Inhalation	5	0	0.37	20	20	20	20	0.36	~	X	0	0 2	0.38	<u>к</u> о ,	20	
As received	innalation	95 I/min	1.21			1.21				1.25							
8 8	2 8	160	A	в	С	D	E	A	в	С	D	E	A	в	С	D	E
80 80	Exhalation	l/min	1.77	1.77	1.73	1.77	1.71	1.74	1.78	1.69	1.70	1.72	1.74	1.78	1.78	1.72	1.74
Flow Rate			0	39			20	2.0	40				G	41	.0		
Simulated wearing treatment	nent Inhalation 95	30 I/min	Ŕ	Ŕ	0.34	2	Ś	Q.	Q	0.34	Q	Ś	Ŕ	Ŕ	0.33		5
		95 I/min	D á	0 6	1.23	×° .	20	20	20	1.18	20	5	5	0 á	1.22	Nº <	30
		160	Α	в	CC	D	E	Α	В	С	D	E	Α	в	C	D	E
\$` \$`	Exhalation	l/min	1.68	1.69	1.71	1.67	1.68	1.69	1.69	1.66	1.66	1.65	1.68	1.71	1.67	1.67	1.67
20 20	Flow Ra	te	5	0 6	42	×° .	50	50	20	43	5	5	15	0 3	44	~~ <	20
Temperature	20. 2	30 I/min	5 2	0	0.32	20	20	20	20	0.32	1			G)	0.32	20	20
conditioned	Inhalation	95 I/min	. X	×	1.11		<u>с</u>	× _	8	1.08	8	8	. 8		1.10		<
à à	Exhalation	160	A	в	С	D	Ē	A	В	С	D	E	A	в	С	D	E
Exhai		l/min	1.58	1.55	1.56	1.54	1.54	1.54	1.53	1.53	1.56	1.53	1.57	1.57	1.56	1.57	1.54

Table 7.16: Breathing resistance (mbar)

A: Facing directly ahead D: Lying on the left side B: Facing vertically upwards

C: Facing vertically downwards

E: Lying on the right side

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Test	Uncertainty
Total inward leakage	3.8%
Penetration of filter material(NaCl)	3.5%
Penetration of filter material(Paraffin oil)	4.2%
Carbon dioxide content of the inhalation air	4.5%
Breathing resistance(30L/min)	5.2%
Breathing resistance(95L/min)	5.4%
Breathing resistance(160)L/min)	6.0%

Photo(s) of Sample:



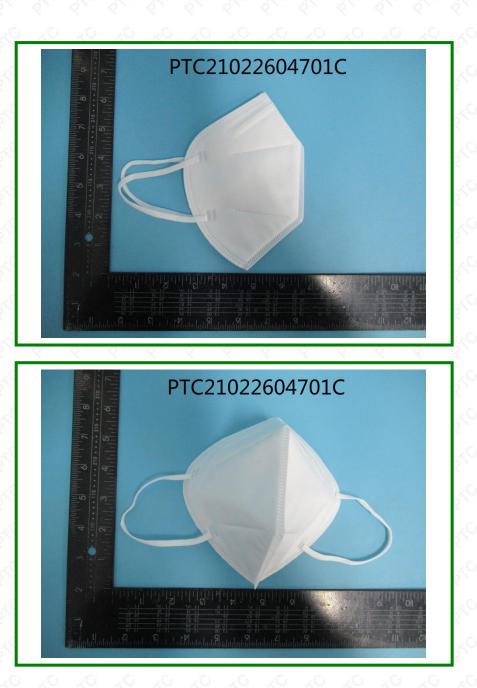
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