

# FISA TEHNICA PRODUS



**Denumire Produs:** Masca Protectie 5 Straturi FFP2 KN95 Alba

**Producator:** ANHUI SUNSHINE HOME TEXTILE CO. LTD

## 1. DESCRIERE

### Caracteristici si avantaje:

- Masca de protectie din 5 straturi din material netesut
- Protectia impotriva particulelor este de peste 0,3 microni
- Pentru protectie civila sau industriala
- Protejeaza impotriva prafului si a particulelor
- Previne patrunderea germenilor
- Masca are clema nazala reglabila
- Masca este confortabila si neiritanta
- De unica folosinta

### Date tehnice:

- Dimensiune: 108 mm  $\pm$  5 mm x 158 mm  $\pm$  5 mm
- Culoare: Alba
- Cantitate: 20 buc/ cutie

### Precautii:

- Nu folositi masca in spatii cu temperaturi de peste 50°C
- Nu folositi masca atunci cand rata oxigenul din mediu este mai mica de 19.5%

### Depozitare:

- Depozitati produsul la temperaturi cuprinse intre -20°C si +25°C
- Nu depozitati produsul in lumina directa a soarelui
- Umiditatea ar trebui sa fie mai mica de 75%

## 2. CERTIFICAT CE ( EN )



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

ZAGREBAČKA ŠKOLA

**END OF CERTIFY**

Anhui Sunshine Home Textile Co., Ltd.  
Fangang Town, East Industrial Park,  
Tongcheng City, Anhui Province, China

Producent  
Anhui Sunshine Home Textile Co., Ltd.  
Fangang Town, East Industrial Park,  
Tongcheng City, Anhui Province, China

|                            |                                                                                                                                                                                                                                                                                       |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Typ wyrobu<br>Product type | Sprzęt ochrony układu oddechowego. Półmaski filtrujące do ochrony przed cząstkami.<br>Półmaska filtrująca, przeciwywpyłowa bez zaworu.<br>Respiratory protective devices. Filtering half masks to protect against particles.<br>Type Dust Particle Filtering Half Mask without valve. |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Maska Ochronna, model: ZC-2021 (klasa FFP2 NR).**  
**Protective Mask, Model: ZC-2021 (class FFP2 NR).**

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

These coefficients remain valid unless cancelled or modified, according the optional conditions (see page 20 and consulted with the manufacturer).

Data submitted: 2026-03-09



Michał Chudziński

Gdańsk, 2021-03-10



Fit jednotlivci nezaměstnaní  
No. of notified body

**1463**

Poldek Reagents: Markkwa S.A.  
ul. Gen. Józefa Hallera 12B  
80-418 Gdańsk, Poland

tel: (+49) (58) 346 17 00  
fax: (+49) (58) 341 77 05  
e-mail: [chulper@jg](mailto:chulper@jg)  
www: <http://www.jg.jg>

Form: S/PCW-03/P/EN  
2010-09-16

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1. Ustawa o sposobie przeprowadzenia badania typu UE nr. 154/2021 z dnia 2021-03-08
2. Instrukcja wykrywania - zatwierdzona przez PRS S.A. dnia 2021-03-08
3. Córka ryzyka - zatwierdzona przez PRS S.A. dnia 2021-03-08
4. Zatwierdzenia techniczna „badni oceny” „inquiry” IT-2021” - zatwierdzona przez PRS S.A. dnia 2021-03-08
5. Raporty z badań nr PTC2102284705C-EN01 z dnia 2021-03-08, oraz PTC2102284705C-EN01, PTC2102284705C-EN02, PTC2102284705C-EN03, PTC2102284705C-EN04, PTC2102284705C-EN05, PTC2102284705C-EN06, PTC2102284705C-EN07, PTC2102284705C-EN08, PTC2102284705C-EN09, PTC2102284705C-EN10, PTC2102284705C-EN11, PTC2102284705C-EN12, PTC2102284705C-EN13, PTC2102284705C-EN14, PTC2102284705C-EN15, PTC2102284705C-EN16, PTC2102284705C-EN17, PTC2102284705C-EN18, PTC2102284705C-EN19, PTC2102284705C-EN20, PTC2102284705C-EN21, PTC2102284705C-EN22, PTC2102284705C-EN23, PTC2102284705C-EN24, PTC2102284705C-EN25, PTC2102284705C-EN26, PTC2102284705C-EN27, PTC2102284705C-EN28, PTC2102284705C-EN29, PTC2102284705C-EN30, PTC2102284705C-EN31, PTC2102284705C-EN32, PTC2102284705C-EN33, PTC2102284705C-EN34, PTC2102284705C-EN35, PTC2102284705C-EN36, PTC2102284705C-EN37, PTC2102284705C-EN38, PTC2102284705C-EN39, PTC2102284705C-EN40, PTC2102284705C-EN41, PTC2102284705C-EN42, PTC2102284705C-EN43, PTC2102284705C-EN44, PTC2102284705C-EN45, PTC2102284705C-EN46, PTC2102284705C-EN47, PTC2102284705C-EN48, PTC2102284705C-EN49, PTC2102284705C-EN50, PTC2102284705C-EN51, PTC2102284705C-EN52, PTC2102284705C-EN53, PTC2102284705C-EN54, PTC2102284705C-EN55, PTC2102284705C-EN56, PTC2102284705C-EN57, PTC2102284705C-EN58, PTC2102284705C-EN59, PTC2102284705C-EN60, PTC2102284705C-EN61, PTC2102284705C-EN62, PTC2102284705C-EN63, PTC2102284705C-EN64, PTC2102284705C-EN65, PTC2102284705C-EN66, PTC2102284705C-EN67, PTC2102284705C-EN68, PTC2102284705C-EN69, PTC2102284705C-EN70, PTC2102284705C-EN71, PTC2102284705C-EN72, PTC2102284705C-EN73, PTC2102284705C-EN74, PTC2102284705C-EN75, PTC2102284705C-EN76, PTC2102284705C-EN77, PTC2102284705C-EN78, PTC2102284705C-EN79, PTC2102284705C-EN80, PTC2102284705C-EN81, PTC2102284705C-EN82, PTC2102284705C-EN83, PTC2102284705C-EN84, PTC2102284705C-EN85, PTC2102284705C-EN86, PTC2102284705C-EN87, PTC2102284705C-EN88, PTC2102284705C-EN89, PTC2102284705C-EN90, PTC2102284705C-EN91, PTC2102284705C-EN92, PTC2102284705C-EN93, PTC2102284705C-EN94, PTC2102284705C-EN95, PTC2102284705C-EN96, PTC2102284705C-EN97, PTC2102284705C-EN98, PTC2102284705C-EN99, PTC2102284705C-EN100, PTC2102284705C-EN101, PTC2102284705C-EN102, PTC2102284705C-EN103, PTC2102284705C-EN104, PTC2102284705C-EN105, PTC2102284705C-EN106, PTC2102284705C-EN107, PTC2102284705C-EN108, PTC2102284705C-EN109, PTC2102284705C-EN110, PTC2102284705C-EN111, PTC2102284705C-EN112, PTC2102284705C-EN113, PTC2102284705C-EN114, PTC2102284705C-EN115, PTC2102284705C-EN116, PTC2102284705C-EN117, PTC2102284705C-EN118, PTC2102284705C-EN119, PTC2102284705C-EN120, PTC2102284705C-EN121, PTC2102284705C-EN122, PTC2102284705C-EN123, PTC2102284705C-EN124, PTC2102284705C-EN125, PTC2102284705C-EN126, PTC2102284705C-EN127, PTC2102284705C-EN128, PTC2102284705C-EN129, PTC2102284705C-EN130, PTC2102284705C-EN131, PTC2102284705C-EN132, PTC2102284705C-EN133, PTC2102284705C-EN134, PTC2102284705C-EN135, PTC2102284705C-EN136, PTC2102284705C-EN137, PTC2102284705C-EN138, PTC2102284705C-EN139, PTC2102284705C-EN140, PTC2102284705C-EN141, PTC2102284705C-EN142, PTC2102284705C-EN143, PTC2102284705C-EN144, PTC2102284705C-EN145, PTC2102284705C-EN146, PTC2102284705C-EN147, PTC2102284705C-EN148, PTC2102284705C-EN149, PTC2102284705C-EN150, PTC2102284705C-EN151, PTC2102284705C-EN152, PTC2102284705C-EN153, PTC2102284705C-EN154, PTC2102284705C-EN155, PTC2102284705C-EN156, PTC2102284705C-EN157, PTC2102284705C-EN158, PTC2102284705C-EN159, PTC2102284705C-EN160, PTC2102284705C-EN161, PTC2102284705C-EN162, PTC2102284705C-EN163, PTC2102284705C-EN164, PTC2102284705C-EN165, PTC2102284705C-EN166, PTC2102284705C-EN167, PTC2102284705C-EN168, PTC2102284705C-EN169, PTC2102284705C-EN170, PTC2102284705C-EN171, PTC2102284705C-EN172, PTC2102284705C-EN173, PTC2102284705C-EN174, PTC2102284705C-EN175, PTC2102284705C-EN176, PTC2102284705C-EN177, PTC2102284705C-EN178, PTC2102284705C-EN179, PTC2102284705C-EN180, PTC2102284705C-EN181, PTC2102284705C-EN182, PTC2102284705C-EN183, PTC2102284705C-EN184, PTC2102284705C-EN185, PTC2102284705C-EN186, PTC2102284705C-EN187, PTC2102284705C-EN188, PTC2102284705C-EN189, PTC2102284705C-EN190, PTC2102284705C-EN191, PTC2102284705C-EN192, PTC2102284705C-EN193, PTC2102284705C-EN194, PTC2102284705C-EN195, PTC2102284705C-EN196, PTC2102284705C-EN197, PTC2102284705C-EN198, PTC2102284705C-EN199, PTC2102284705C-EN200, PTC2102284705C-EN201, PTC2102284705C-EN202, PTC2102284705C-EN203, PTC2102284705C-EN204, PTC2102284705C-EN205, PTC2102284705C-EN206, PTC2102284705C-EN207, PTC2102284705C-EN208, PTC2102284705C-EN209, PTC2102

CW/PFER/17/03/2021

3. EU type examination case No. 119/2021 dated 2021-03-08.  
4. Inclusion of use - approved by PMS 5.4 on 2021-03-08.  
5. Risk analysis - approved by PMS 5.4 on 2021-03-08.  
6. Technical documentation "Productive Ideal, Model JC 2022" - approved by PMS 5.4 on 2021-03-08.  
7. Test reports No. PTC210230403/EN601 dated 2021-03-05 and PTC210230402/EN601, PTC210230403/EN601, PTC210230404/EN601, PTC210230405/EN601, PTC210230406/EN601, PTC210230407/EN601, PTC210230408/EN601, PTC210230409/EN601, PTC210230410/EN601 dated 2021-03-05 issued by Pricer Testing & Certification(Guangdong) Co., Ltd. with EN601 coordination on 2022-02-08.  
8. PMS 5.4. Safety Review No. C20210308/2021 dated 2021-03-08.

Miejscę produkcji  
(tzw. ról podane na stronie 1)  
Place of production  
(address) (tzw. ról podane na stronie 1)

**Organisms and  
Approved facilities**

1. Dane techniczne:

- a) maska ochronna z regulowanymi klipsami na nos;
- b) klips na nos montowany wewnątrz maski ochronnej;
- c) maska ochronna wykonana z 5 warstwowej włókna z filarem i twardym;
- d) maska ochronna wyposażona w zawieszki;
- e) maska ochronna bez zawieszki;
- f) wymiary: 108 cm x 5 cm x 158 cm x 5 cm;
- g) kolor:

[illegible]

- Filmszka filtrująca przeznaczona do jednorazowego użytku.
- Dokumentacja techniczna zaktualizowana w języku angielskim.

*E. hyperborea* (L.)

g) protective mask with adjustable nose clip,  
h) nose clip mounted inside the protective mask,  
i) protective mask made with 5 layers non-woven fabric with melt blown fabric filter,  
j) protective mask with ear loops,  
k) protective mask without valve,  
l) size: 108 mm x 16 mm x 130 mm ± 3 mm,  
m) colors:

| particular model | protective mask | per loop | mask clip | wire |
|------------------|-----------------|----------|-----------|------|
| 2C-2021          | white           | white    | NA        | NA   |
| 2C-2021B         | black           | white    | NA        | NA   |
| 2C-2021B         | black           | white    | NA        | NA   |
| 2C-2021B         | yellow          | white    | NA        | NA   |
| 2C-2021B         | yellow          | white    | NA        | NA   |
| 2C-2021B         | neon blue       | white    | NA        | NA   |
| 2C-2021B         | green           | white    | NA        | NA   |

3. Technical documentation prepared in English.

Wartunki umiarkowane  
Approach conditions

1. Wniosek dotyczył sytuacji wewnątrz państwa lub zmodyfikacji w sprawie bez ograniczonego umiarkowania z PPT.

The Mark of Conformity may only be affixed to the above said approved product and its 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 94/55/EC Regulation.

Form: BPCW-CLPPER  
2020-03-18

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### 3. CERTIFICAT CE ( RO )

Traducere din limba engleză



AC 114



Formular 8/PCW-01/PPER  
2020-03-26

Stampilă oficială

Nr. organism notificat  
**1463**

Polski Rejestr Statków S.A.  
al. Gen. Józefa Hallera 126  
80-416 Gdańsk, Polonia  
tel. (+48)(58)346 17 00  
fax (+48)(58)341 77 69  
e-mail: dr@prs.pl  
www: http://www.prs.pl/

#### CERTIFICAT DE EXAMINARE UE DE TIP (MODUL B)

Nr. CW/PPER/17/03/2021

##### PRIN PREZENTA SE CERTIFICĂ

faptul că Polski Rejestr Statków S.A. (PRS) a întreprins procedura de examinare UE pentru produsul identificat mai jos și s-a constatat că acesta este în conformitate cu cerințele Anexei V la Reglementarea (UE) 2016/425 a Parlamentului European și a Consiliului din 9 martie 2016 cu privire la echipamentul de protecție personală, abrogând Directiva Consiliului 82/686/CEE, după cum a fost modificată.

|                       |                                                                                                                                                          |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solicitant            | Anhui Sunshine Home Textile Co., Ltd.<br>Fangang Town, East Industrial Park,<br>Tongcheng, provincia Anhui, China.                                       |
| Producător            | Anhui Sunshine Home Textile Co., Ltd.<br>Fangang Town, East Industrial Park,<br>Tongcheng, provincia Anhui, China.                                       |
| Tip produs            | Dispozitive de protecție respiratorii. Măști filtrante pentru protecție împotriva particulelor.<br>Mască filtrantă pentru particule de praf, fără valvă. |
| Descriere produs      | Mască de protecție, Model: ZC-2021 (clasa FFP2 NR.)                                                                                                      |
| Standarde specificate | PN-EN 149+A1:2010<br>EN 149:2001+A1:2009                                                                                                                 |

Prezentul certificat rămâne valabil dacă nu este anulat sau revocat, cu condiția să existe conformitate cu condițiile de aprobare (consultați pagina 2).

Data expirării: 2026-03-09

|                    |                   |                                                                                       |
|--------------------|-------------------|---------------------------------------------------------------------------------------|
| Gdańsk, 2021-03-10 | Stampilă oficială | Certification Division Director<br><u>Stampilă indeșifrabilă</u><br>Michał Chudziński |
|--------------------|-------------------|---------------------------------------------------------------------------------------|

- Listă documente:
1. Contract examinare tip UE nr: 159/2021 din 2021-03-08
  2. Instrucțiuni de utilizare – aprobate de PRS S.A. în 2021-03-09
  3. Analiza riscului – aprobat de PRS S.A. în 2021-03-09
  4. Documentația tehnică "Mască de protecție, Model: ZC-2021" aprobat de PRS S.A. în 2021-03-09
  5. Rapoarte test Nr. PTC21022604701C-EN01 din 2021-03-05 și PTC21022604702C-EN01, PTC21022604703C-EN01, PTC21022604704C-EN01, PTC21022604705C-EN01, PTC21022604706C-EN01, PTC21022604707C-EN01 din 2021-03-06 emise de Precise Testing & Certification (Guangdong) Co., Ltd. cu nr. acreditare CNAS L5772.
  6. Raport de prospectare PRS S.A. Nr. CW/ZO/PPER/25/2021 din 2021-03-10.

Locuri de producție - - -  
(diferite de cele de la pagina 1)

Limitări în vederea aprobării:

1. Specificații
  - a) mască de protecție cu clemă nazală reglabilă
  - b) clemă nazală montată în interiorul măștii de protecție,
  - c) mască de protecție cu 5 straturi de material nețesut cu filtru din material suflat,
  - d) mască de protecție cu prindere în jurul urechilor,
  - e) mască de protecție fără valvă,
  - f) dimensiune: 108 mm ± 5 mm x 158 mm ± 5 mm,
  - g) culori:

| Model     | Mască de protecție | Prindere în jurul urechii | Clemă nazală | Valvă |
|-----------|--------------------|---------------------------|--------------|-------|
| ZC-2021   | Alb                | Alb                       | NA           | NA    |
| ZC-2021BE | Albastru           | Alb                       | NA           | NA    |
| ZC-2021BK | Negru              | Alb                       | NA           | NA    |
| ZC-2021R  | Roșu               | Alb                       | NA           | NA    |
| ZC-2021Y  | Galben             | Alb                       | NA           | NA    |
| ZC-2021NB | Albastru marin     | Alb                       | NA           | NA    |
| ZC-2021G  | Verde              | Alb                       | NA           | NA    |

2. măștile de protecție nu vor fi folosite mai mult decât durata unui schimb
3. documentație tehnică aprobată în limba engleză

#### Condiții de aprobare

1. Prezentul certificat își pierde valabilitatea în urma schimbărilor sau modificărilor aduse produsului fără acordul anterior al PRS.
2. Marca de Conformitate poate fi aplicată doar pe tipul de produs aprobat mai sus, iar Declarația de Conformitate a producătorului poate fi emisă doar dacă producția este evaluată sub supravegherea unui organism notificat, în conformitate cu Anexa VII sau VIII din Reglementarea a/m.

Formular 8/PCW-01/PPER

2020-03-26

Subsemnata, **ALBA ILEANA LUMINITA** traducător autorizat pentru limba Engleză și franceză, în temeiul autorizației nr. 33132, eliberată de Ministerul Justiției, certific exactitatea traducerii efectuate din limba engleză în limba română, că textul prezentat a fost tradus în întregime și că prin traducere, înscrisului nu i-au fost denaturate conținutul și sensul.

Traducător și Interpret Autorizat  
**ALBA ILEANA LUMINITA**  
Limba ENGLEZĂ  
Aut.Nr. 33132

## 4. Declarație De Conformitate (EN + RO)

Factory Name: Anhui Sunshine Home Textile Co., Ltd.  
Address: Fangang Town East Industrial Park, Tongcheng City, Anhui Province, China

### 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 particulate.
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: REGULATION (EU) 2016/425 on personal protective equipment and repealing Council Directive 89/686/EEC.
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 ALTERNATE INTERVALS (Module C2)

Issued by notified body: NB 1463- POLSKI REJESTR STATKOW S.A., with address: Al. Gen. Jozefa Hallera 129

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



Denumire fabrică: Anhui Sunshine Home Textile Co., Ltd.  
Adresa: Fangang Town East Industrial Park, Tongcheng City, Anhui Province, China

### DECLARAȚIE UE DE CONFORMITATE

1. Echipament individual de protecție: Maskă de protecție (Modele: ZC-2021, ZC-2021BE, ZC-2021BK, ZC-2021R, ZC-2021Y, ZC-2021NB, ZC-2021G), Clasă: FFP2 NR.
2. Denumirea și adresa producătorului:  
Denumire: Anhui Sunshine Home Textile Co., Ltd.  
Adresa: Fangang Town East Industrial Park, Tongcheng City, Anhui Province, China
3. Prezenta declarație de conformitate este emisă pe răspunderea exclusivă a producătorului: Anhui Sunshine Home Textile Co., Ltd.
4. Obiectul declarației este: Maskă de protecție (Modele: ZC-2021, ZC-2021BE, ZC-2021BK, ZC-2021R, ZC-2021Y, ZC-2021NB, ZC-2021G), Clasă: FFP2 NR pentru protecție respiratorie împotriva particulelor.
5. Obiectul declarației, descris la punctul 4, este în conformitate cu legislația armonizată relevantă a Uniunii: REGLEMENTAREA (UE) 2016/425 cu privire la echipamentul individual de protecție, care abrogă Directiva Consiliului 89/686/CEE.
6. Maskă de protecție (Modele: ZC-2021, ZC-2021BE, ZC-2021BK, ZC-2021R, ZC-2021Y, ZC-2021NB, ZC-2021G) îndeplinește cerințele FFP2 NR standardului armonizat EN 149:2001+2009 utilizat pentru a confirma conformitatea cu legislația relevantă de armonizare a Uniunii: REGLEMENTAREA (UE) 2016/425 cu privire la echipamentul individual de protecție și care abrogă Directiva Consiliului 89/686/CEE.
7. Organismul notificat: NB 1463- POLSKI REJESTR STATKOW S.A.
8. Modulul de certificare: EXAMINARE UE TP (Modul B) + CONTROLUL INTERN AL PRODUCȚIEI PLUS CONTROLUL SUPERVIZAT AL PRODUSELOR LA INTERVALE ALTERNATE (Modul C2)

Emis de organismul notificat: NB 1463- POLSKI REJESTR STATKOW S.A., cu adresa: Al. Gen. Jozefa Hallera 129 80-416 GDANSK, Tara: Polonia

Semnat pentru și în numele: Anhui Sunshine Home Textile Co., Ltd.

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

Locul și data emiterii:  
Tongcheng City, Anhui Province, China

Spațiul oficial: Semnatura întreprinderii



Subsemnata, ALBA ILEANA LUMINITA traducător autorizat pentru limba Engleză și franceză, în temeiul autorizației nr. 33132, eliberată de Ministerul Justiției, certifică exactitatea traducerii efectuate din limba engleză în limba română, că textul prezentat a fost tradus în întregime și că prin traducere, înscrisului nu i-au fost denaturate conținutul și sensul.

Traducător și interpret autorizat  
ALBA ILEANA LUMINITA  
Limba ENGLEZA  
Act No. 33132

5. Raport de testare (EN)



中国合格  
评定国家  
实验室  
CNAS L1772

# 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: Zheng 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:

Approved by:



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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                            | N/A        |
| 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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## Test Result:

| Requirement                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Test Result                                                                                                                                         | Conclusion |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| <b>7.3 Visual inspection</b><br>The visual inspection shall also include the marking and the information supplied by the manufacturer.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Not tested                                                                                                                                          | Not tested |
| <b>7.4 Packaging</b><br>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.                                                                                                                                                                                                                                                                                                                                                                                                                              | In accordance with the requirement.                                                                                                                 | Pass       |
| <b>7.5 Material</b><br>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.<br><br>Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.<br><br>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.<br><br>When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse. | No mechanical failure after undergoing the conditioning described in 8.3.1.<br><br>No collapse when conditioned in accordance with 8.3.1 and 8.3.2. | Pass       |
| <b>7.6 Cleaning and disinfecting</b><br>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.                                                                                                                                                                                                                                                                                                                                                                                | Single shift use only                                                                                                                               | N/A        |
| <b>7.7 Practical performance</b><br>The particle filtering half mask shall undergo practical performance tests under realistic conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | No imperfections                                                                                                                                    | Pass       |
| <b>7.8 Finish of parts</b><br>Parts of the device likely to come into contact with the wearer shall have no sharp edges or burrs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | No sharp edges or burrs.                                                                                                                            | Pass       |

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## 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 6 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.

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

Pass

## 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.

|      | Sodium chloride test<br>95 l/min | Paraffin oil test 195<br>l/min |
|------|----------------------------------|--------------------------------|
| FFP1 | ≤ 20%                            | ≤ 20%                          |
| FFP2 | ≤ 6%                             | ≤ 6%                           |
| FFP3 | ≤ 1%                             | ≤ 1%                           |

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.

No irritation or any other adverse effect to health.

Pass

## 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.

Test results are shown in Annex A Table 7.11.

Pass

## 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)

Test results are shown in Annex A Table 7.12.

Pass

## 7.13 Head harness

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

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

Pass

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

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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.

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

## 7.14 Field of vision

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

Pass the practical performance tests.

Pass

## 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.

No exhalation valve

N/A

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

| 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       |

FFP2 Test results are shown in Annex A Table 7.16.

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

Single shift use only.

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

|      | Sodium chloride test<br>95 l/min | Paraffin oil test 95<br>l/min |
|------|----------------------------------|-------------------------------|
| FFP1 | ≤ 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

No demountable parts.

N/A

## 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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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      |
| Li      | 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      |
| Ma      | 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      | 120         | 135        | 112        | 55          |
| Zhong   | 108         | 135        | 108        | 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 (%) | Assessment |
|----------------------|-----------------------------------------------|------------|-----------------|------------|
| Sodium chloride test | As received                                   | 11         | 0.1             | Pass       |
|                      |                                               | 12         | 0.1             |            |
|                      |                                               | 13         | 0.1             |            |
|                      | Simulated wearing treatment                   | 14         | 0.1             |            |
|                      |                                               | 15         | 0.2             |            |
|                      |                                               | 16         | 0.2             |            |
|                      |                                               | 17         | 0.1             |            |
|                      | Mechanical strength + Temperature conditioned | 18         | 0.1             |            |
|                      |                                               | 19         | 0.1             |            |
| Paraffin oil test    | As received                                   | 20         | 0.1             |            |
|                      |                                               | 21         | 0.1             |            |
|                      |                                               | 22         | 0.1             |            |
|                      |                                               | 23         | 0.1             |            |
|                      | Simulated wearing treatment                   | 24         | 0.1             |            |
|                      |                                               | 25         | 0.1             |            |
|                      |                                               | 26         | 0.4             |            |
|                      | Mechanical strength + Temperature conditioned | 27         | 0.3             |            |
|                      |                                               | 28         | 0.4             |            |



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**Table 7.11: Flammability**

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

| Condition               | Sample No. | Result  | Assessment |
|-------------------------|------------|---------|------------|
| As received             | 29         | No burn | Pass       |
|                         | 30         | No burn |            |
| Temperature conditioned | 31         | No burn |            |
|                         | 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. | Result (%) | Assessment |
|-------------|------------|------------|------------|
| As received | 33         | 0.05       | Pass       |
|             | 34         | 0.05       |            |
|             | 35         | 0.05       |            |

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Table 7.16: Breathing resistance (mbar)

Test specification: EN 149:2001+A1:2009 Clause 8.9

| As received                 | Flow Rate  |           | 36   |      |      |      |      | 37   |      |      |      |      | 38   |      |      |      |      |
|-----------------------------|------------|-----------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                             | Inhalation | 30 L/min  | 0.37 |      |      |      |      | 0.36 |      |      |      |      | 0.36 |      |      |      |      |
|                             |            | 95 L/min  | 1.21 |      |      |      |      | 1.21 |      |      |      |      | 1.25 |      |      |      |      |
|                             | Exhalation | 160 L/min | A    | B    | C    | D    | E    | A    | B    | C    | D    | E    | A    | B    | C    | D    | E    |
|                             |            |           | 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 |
| Simulated wearing treatment | Flow Rate  |           | 39   |      |      |      |      | 40   |      |      |      |      | 41   |      |      |      |      |
|                             | Inhalation | 30 L/min  | 0.34 |      |      |      |      | 0.34 |      |      |      |      | 0.33 |      |      |      |      |
|                             |            | 95 L/min  | 1.23 |      |      |      |      | 1.18 |      |      |      |      | 1.22 |      |      |      |      |
|                             | Exhalation | 160 L/min | A    | B    | C    | D    | E    | A    | B    | C    | D    | E    | A    | B    | C    | D    | E    |
|                             |            |           | 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 |
| Temperature conditioned     | Flow Rate  |           | 42   |      |      |      |      | 43   |      |      |      |      | 44   |      |      |      |      |
|                             | Inhalation | 30 L/min  | 0.32 |      |      |      |      | 0.32 |      |      |      |      | 0.32 |      |      |      |      |
|                             |            | 95 L/min  | 1.11 |      |      |      |      | 1.08 |      |      |      |      | 1.10 |      |      |      |      |
|                             | Exhalation | 160 L/min | A    | B    | C    | D    | E    | A    | B    | C    | D    | E    | A    | B    | C    | D    | E    |
|                             |            |           | 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 |
| Assessment                  |            | Pass      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

A: Facing directly ahead B: Facing vertically upwards C: Facing vertically downwards

D: Lying on the left side E: Lying on the right side



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| 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 inhaled air    | 4.5%        |
| Breathing resistance(30L/min)                | 5.2%        |
| Breathing resistance(95L/min)                | 5.4%        |
| Breathing resistance(160L/min)               | 6.0%        |

Photo(s) of Sample:



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# Va multumim!



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