

# DOCUMENTATION

REF. CV-41 / SL-FK1391

**MASK ULTRA PROTECTION FFP2**

MASCARILLA ULTRA PROTECCIÓN FFP2

MASQUE FFP2 ULTRA PROTECTION FFP2

MASCHERINA PROTEZIONE ULTRA FFP2



MASTER BOX: 1000 pcs



CV-41

ITEM: SL-FK1391

DESCRIPTION: **NAAMIO**

MATERIAL:

5 PLY (40% non woven, 38% Meltblown, 22% algodón).

QUANTITY: 1.000

G.W

N.W

CNT SIZE

BATCH NUMBER:

PRODUCTION DATE:

VALIDITY:

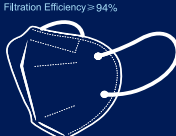
MADE IN P.R.C.

BOX: 25 pcs

**FFP2**  
Personal Protective Equipment (PPE)  
Equipo de Protección Individual (EPI)

EN 149:2001+A1:2009  
FFP2 NR


Filtration Efficiency ≥ 94%



**CV-41 MASCARILLA ULTRA PROTECCIÓN FFP2**  
Comfortable protection against infection / Protección cómoda contra infecciones.

**MASCARILLA ULTRA PROTECCIÓN FFP2**  
Personal Protective Equipment (PPE)  
Equipo de Protección Individual (EPI)

**Instructions:**



**Step for usage:**

1. Open the foldable mask.
2. Make the nose bridge bar on the up side.
3. Put the strap onto the ear.
4. Adjust the soft bar to fit the nose.
5. Make sure you can breathe well and readjust if necessary.

**Instrucciones de uso:**

1. Abra la máscara plegable.
2. Ajuste la máscara en la parte superior de la nariz.
3. Ajuste las cintas elásticas por detrás de las orejas.
4. Amóvèle la pizna nasal a la parte superior de la nariz.
5. Asegúrese de poder respirar bien y ajústelo si es necesario.

**WARNINGS:**

1. This mask marked "NR" is for single use only.
2. This mask helps protect against certain particulate contaminants but does not completely eliminate exposure to the risk of contracting disease or infection.
3. Change the mask immediately if breathing becomes difficult or the mask becomes distorted.


**ATENCIÓN:**

1. Esta máscara "NR" es recomendada para un solo uso.
2. Esta máscara ayuda a proteger contra ciertas partículas contaminantes, pero no elimina por completo la exposición al riesgo de contraer enfermedades o infecciones.
3. Cambie la máscara inmediatamente si la respiración se vuelve difícil o la máscara se daña o se distorsiona.

**FFP2**  
Personal Protective Equipment (PPE)  
Equipo de Protección Individual (EPI)

EN 149:2001+A1:2009  
FFP2 NR

Filtration Efficiency ≥ 94%



**CV-41 MASCARILLA ULTRA PROTECCIÓN FFP2**  
Comfortable protection against infection / Protección cómoda contra infecciones.

**FFP2**  
Personal Protective Equipment (PPE)  
Equipo de Protección Individual (EPI)

EN 149:2001+A1:2009  
FFP2 NR

Filtration Efficiency ≥ 94%

**Description Mascarilla ultra protección FFP2**  
Respiration: 20 l/min, 22%  
Personal Protective Equipment (PPE)  
EN 149:2001+A1:2009

**Organismo notificado:** CE 0370  
ISA TECNOLOGICAL CENTER, S.A. (APPUS)  
Calleja 186, Avenida de la Port del Gama s/n 03033  
Bilbao - Barcelona (Spain)

**Referencia del producto:** SL-FK1391-1A  
Material: 47% Non-woven,  
21% Multiblown, 22% algodón  
Cantidad por caja: 25 piezas

**Fecha de producción:**  
Lote:  
Plazo de validez:

**Condiciones de Almacenaje:**  
Temperatura: 20°C to 40°C, relative humidity less than 80%.  
Se debe garantizar que las cajas estén selladas, no estén dañadas, no estén contaminadas, no se haya detectado por la humedad, para asegurar la prevención de infección, entre los países se menciona la exposición de las mismas al sol.

**Importado por / Imported by:**  
B30668420, C/ Sella, 3-5  
Pol. Ind. Cabezo Beaza 30033 Cartagena (Spain)

**Made in P.R.C.**  
www.certificados.cifra.es

BAG: 1 pc

Regulación/ Regulation: 2016/425

**FFP2**

Equipo de Protección Individual (EPI)  
Personal Protective Equipment (PPE)

Model: SL-FK1391-1A

CE 0370  
EN 149:2001+A1:2009  
FFP2 NR

Filtration Efficiency ≥ 94%




1 piece

Importado por / Imported by:  
B30668420, C/ Sella, 3-5  
Pol. Ind. Cabezo Beaza 30033 Cartagena (Spain)

Organismo notificado / Notified body:  
ISA TECNOLOGICAL CENTER, S.A. (APPUS)  
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Bilbao - Barcelona (Spain)

MADE IN P.R.C.

Comprobación certificados/  
Certificate verification:  
www.certificados.cifra.es



**INSTRUCCIONES DE USO:**

1. Abra la máscara plegable.
2. Ajuste la máscara en la parte superior de la nariz.
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**STEP FOR USAGE:**

1. Open the foldable mask.
2. Make the nose bridge bar on the up side.
3. Put the strap onto the ear.
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1. Esta máscara "NR" es recomendada para un solo uso.
2. Esta máscara ayuda a proteger contra ciertas partículas contaminantes, pero no elimina por completo la exposición al riesgo de contraer enfermedades o infecciones.
3. Cambie la máscara inmediatamente si la respiración se vuelve difícil o la máscara se daña o se distorsiona.

**WARNING:**

1. This mask marked "NR" is for single use only.
2. This mask helps protect against certain particulate contaminants, but does not completely eliminate exposure to the risk of contracting disease or infection.
3. Change the mask immediately if breathing becomes difficult or the mask becomes damaged or distorted.

**MATERIAL:**  
47% Non-woven, 21% Multiblown, 22% algodón

**MATERIAL:**  
47% Non-woven, 21% Multiblown, 22% cotton



Mantener a temperatura de -20°C a +40°C / Temperature -20°C to 40°C

Mantener a Max. humedad relativa: 40% / Relative humidity less than 40%

5 Cajas de protección / 5 Layer protection

Excarburante transpirable / Breathable membrane

Cinturillo con velcro para los oídos / Comfortable ear straps

Plástico PPA/2 / Power PPA/2

Fecha de producción/ Production date:  
Lote/ Production Batch:  
Plazo de validez/ Expiration date:

8 436534 314726

Colaboramos con



Asociaciones y Entidades a las que pertenecemos



# EU DECLARE OF THE CONFORMITY



We

Company Name:	Fujian Yongtai Sanlian Garment Co.,LTD		
Postal address:	Dongyang township Factory Building,Mayang Industrial ZoneChengfeng Town,Yongtai County,China		
Postcode:	350700		
City:	Fuzhou		
	Mask are	FFP2 NR	
	Brand name	Xier	

Declare that the Doc is issued under our sole responsibility and belongs to the following products:

Apparatus model/Product:	Disposable protective mask
Type:	SL-FK1391

Object of the declaration(identification of apparatus allowing traceability. It may include a colour image of sufficient clarity where necessary for the identification of the appearance)



The object of the declaration described above is in conformity with the relevant Union harmonisation legislation:

## Personal protective equipment Regulation(EU)2016/425

The following harmonised standards and technical specifications have been applied:

Title,Date of standards/specification:

### EN149:2001+A1:2009

Notified body(where applicable)

4 digit notified body number

LGAI TECHNOLOGICAL CENTER,S.A.(APPLUS)	0370
Certificate Number:	CE 0370-4860-PPE/B
Technical report numbered:	PTC20110500601C-EN01V01:SL-FK1391-1A as Black color PTC20110500602C-EN01V01:SL-FK1391-1B as Blue color PTC20110500603C-EN01V01:SL-FK1391-1C as Grey color PTC20110500604C-EN01V01: SL-FK1391-1D as Pink color

Signed for and on behalf of

Yongtai,China

30/11/2020



Place of issue

Date of issue

Name,function,signature  
General Manager



Notified Body No. 0370

## CERTIFICADO DE EXAMEN UE DE TIPO EU-TYPE EXAMINATION CERTIFICATE



No. **0370-4860-PPE/B**

<b>ORGANISMO NOTIFICADO Nº</b> <i>NOTIFIED BODY NUMBER</i>	<b>0370 - LGAI TECHNOLOGICAL CENTER (APPLUS)</b>
<b>SOLICITANTE / FABRICANTE</b> <i>APPLICANT / MANUFACTURER</i>	<b>Fujian Yongtai Sanlian Garment CO.,LTD.</b> Dongyang Township Factory Building, Mayang Industrial ZoneChengfeng Town, Yongtai County, China
<b>PLANTA DE PRODUCCIÓN</b> <i>PRODUCTION SITE</i>	<b>Fujian Yongtai Sanlian Garment CO.,LTD.</b> Dongyang Township Factory Building, Mayang Industrial ZoneChengfeng Town, Yongtai County, China
<b>REGLAMENTO DE APLICACIÓN PARA DAR LA CONFORMIDAD / APPLICABLE REGULATION TO GIVE CONFORMITY:</b> <b>REGLAMENTO (UE) 2016/425 SOBRE LOS EQUIPOS DE PROTECCIÓN INDIVIDUAL</b> <i>REGULATION (EU) 2016/425 PERSONAL PROTECTIVE EQUIPMENT</i>	
<b>PROCEDIMIENTO DE EVALUACIÓN DE LA CONFORMIDAD</b> <i>CONFORMITY ASSESSMENT PROCEDURE</i>	Módulo // <i>Module</i> : <b>B</b> <b>EXAMEN UE DE TIPO / EU TYPE EXAMINATION</b>
<b>IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO)</b> <i>IDENTIFICATION OF THE PPE (TYPE NUMBER)</i>	Ver Anexo Técnico <i>See Technical Annex</i>
<b>NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI / PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE</b>	Ver Anexo Técnico <i>See Technical Annex</i>
<b>NORMAS ARMONIZADAS / HARMONISED STANDARDS</b>	EN 149:2001 + A1:2009 Dispositivos de protección respiratoria. Medias máscaras filtrantes de protección contra partículas. Requisitos, ensayos, marcado. <i>EN 149:2001 + A1:2009 Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking</i>
<b>FECHA DE EMISIÓN / ISSUE DATE</b>	<b>30/11/2020</b>
<b>VALIDEZ HASTA / VALIDITY UNTIL</b>	<b>30/11/2025</b>
<p>El presente certificado se mantendrá vigente durante 5 años siempre que el producto descrito no sea modificado y cumpla los requisitos esenciales de salud y seguridad establecidos en el Reglamento (UE) 2016/425. Para asegurar dicho cumplimiento, este certificado deberá ir acompañado de la documentación correspondiente a la Evaluación de Conformidad con el tipo según módulo C2, D (realizada por un Organismo Notificado, según frecuencia establecida).</p> <p><i>This certificate will remain valid for 5 years as long as the indicated product is not modified and fulfills the essential requirements of health and safety established in (EU) Regulation 2016/425. To ensure such compliance, this certificate must be accompanied by the documentation corresponding to the Conformity Assessment to type according to C2, D(carried out by a Notified Body according, to the established frequency).</i></p>	

  
Xavier Ruiz Peña  
Managing Director, Product Conformity B.U.



Este documento carece de validez sin su anexo técnico, cuyo número coincide con el del certificado.  
*This document is not valid without its technical annex, whose number coincides with the number of certificate.*

Puede comprobarse la validez de este certificado en nuestra página web / *You can check the validity of this certificate on our website:*  
[www.appluslaboratories.com/certified\\_products](http://www.appluslaboratories.com/certified_products)

**ANEXO TÉCNICO**  
*TECHNICAL ANNEX*

**0370-4860-PPE/B**

**I. MODELOS INCLUIDOS EN EL CERTIFICADO**

*REFERENCES INCLUDED IN THIS CERTIFICATE*

<b>MARCA</b> <i>BRAND</i>	XIER
<b>IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO)</b> <i>IDENTIFICATION OF THE PPE (TYPE NUMBER)</i>	SL-FK1391-1A
<b>NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI</b> <i>PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE</i>	FFP2 NR
<b>INFORME DE ENSAYO</b> <i>TEST REPORT</i>	PTC20110500601C-EN01V01 issued by Precise Testing & Certification (Guangdong) Co.,Ltd.(PTC).

<b>MARCA</b> <i>BRAND</i>	XIER
<b>IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO)</b> <i>IDENTIFICATION OF THE PPE (TYPE NUMBER)</i>	SL-FK1391-1B
<b>NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI</b> <i>PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE</i>	FFP2 NR
<b>INFORME DE ENSAYO</b> <i>TEST REPORT</i>	PTC20110500602C-EN01V01 issued by Precise Testing & Certification (Guangdong) Co.,Ltd.(PTC).

**ANEXO TÉCNICO**  
*TECHNICAL ANNEX*

**0370-4860-PPE/B**

<b>MARCA</b> <i>BRAND</i>	XIER
<b>IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO)</b> <i>IDENTIFICATION OF THE PPE (TYPE NUMBER)</i>	SL-FK1391-1C
<b>NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI</b> <i>PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE</i>	FFP2 NR
<b>INFORME DE ENSAYO</b> <i>TEST REPORT</i>	PTC20110500603C-EN01V01 issued by Precise Testing & Certification (Guangdong) Co.,Ltd.(PTC).

<b>MARCA</b> <i>BRAND</i>	XIER
<b>IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO)</b> <i>IDENTIFICATION OF THE PPE (TYPE NUMBER)</i>	SL-FK1391-1D
<b>NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI</b> <i>PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE</i>	FFP2 NR
<b>INFORME DE ENSAYO</b> <i>TEST REPORT</i>	PTC20110500604C-EN01V01 issued by Precise Testing & Certification (Guangdong) Co.,Ltd.(PTC).

**产品开发  
测试和认证**

艾普拉斯（上海）质量检测有限公司  
中国上海浦东新区秀浦路 3999 弄  
聚诚创业园 23 号  
邮编：201315  
电话：+86（21）5237 0776  
传真：+86（21）5208 0556  
chinaservices@applus.com  
www.appluslaboratories.com

**Product Development,  
Testing & Certification**

Applus (Shanghai) Quality Inspection Co., Ltd  
Jucheng Pioneer Park, Building 23  
3999 Xiu Pu Rd, Nan Hui  
Pudong District, Shanghai 201315, China  
T +86(21) 5237 0776  
F +86(21) 5208 0556  
chinaservices@applus.com  
www.appluslaboratories.com



## STATEMENT

We, hereby, that in EU-TYPE EXAMINATION CERTIFICATE, with number: 0370-4860-PPE/B, and issue date: 30/11/2020, the IDENTIFICATION OF THE PPE (TYPE NUMBER) is just SL-FK1391, being "SL-FK1391-1A", "SL-FK1391-1B", "SL-FK1391-1C" and SL-FK1391-1D" the way that factory has denominated the different colors for the same mask model on test reports

**Product:** protective mask

**Report Number/Model:** PTC20110500601C-EN01V01: SL-FK1391-1A as Black color

PTC20110500602C-EN01V01: SL-FK1391-1B as Blue color

PTC20110500603C-EN01V01: SL-FK1391-1C as Grey color

PTC20110500604C-EN01V01: SL-FK1391-1D as Pink color

All issued by Precise Testing & Certification (Guangdong) Co.,Ltd.(PTC) according to standard: EN 149:2001 + A1:2009 Respiratory protective devices. Filtering half masks to protect against particles. Requirements, testing, marking

**Certificate numberr:** 0370-486-PPE/B

LGAI Technological Center, S.A. (APPLUS). Shanghai branch  
Jucheng Pioneer Park, Building 23, 3999 Xiu Pu Rd, Nan Hui, Pudong District,  
Shanghai 201315, China.





中国认可  
国际互认  
检测  
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.:** PTC20110500603C-EN01V01  
**Client:** Fujian Yongtai Sanlian Garment CO.,LTD  
**Client Address:** Dongyang Township Factory Building, Mayang Industrial Zone Chengfeng Town, Yongtai County, China  
**Manufacturer:** Fujian Yongtai Sanlian Garment CO.,LTD  
**Manufacturer Address:** Dongyang Township Factory Building, Mayang Industrial Zone Chengfeng Town, Yongtai County, China  
**Contact:** Lei Yanling  
**Model(s):** SL-FK1391-1C  
**Classification:** FFP2 NR  
**Date of Tests:** 2020.11.09~2020.11.16

Signed for and on Behalf of PTC

Prepare by:

Checked by:

Approved by:

Arme

Jue

Jim Mo



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The report could not be copied without permission

**Precise Testing & Certification (Guangdong) Co., Ltd. (PTC)**

Building 1, No. 6, Tongxin Road, Dongcheng Street, Dongguan, Guangdong, China.  
Tel: 86-769-38808222 Fax: 86-769-38826111 [http:// www.ptc-testing.com](http://www.ptc-testing.com)





# Test Report

Report No.:PTC20110500603C-EN01V01

Issue Date: Nov.17, 2020

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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	PASS
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 Report

Report No.:PTC20110500603C-EN01V01

Issue Date: Nov.17, 2020

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## Test Result:

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

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# Test Report

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Issue Date: Nov.17, 2020

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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

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

**Pass**

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.

	Sodium chloride test 95 l/min	Paraffin oil test 95 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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# Test Report

Report No.:PTC20110500603C-EN01V01

Issue Date: Nov.17, 2020

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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 95 l/min	Paraffin oil test 95 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

Comply

Pass

## 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.

Not tested

Not tested

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	4.2	5.4	6.8	6.9	6.7	6.0
Li	2	A.R	4.7	4.8	4.5	6.1	4.4	4.9
Zhong	3	A.R	5.1	6.6	4.8	5.8	6.3	5.7
Xu	4	A.R	4.2	3.8	4.2	5.0	4.0	4.2
Ma	5	A.R	4.1	4.1	4.9	6.4	5.6	5.0
Chen	6	T.C	3.0	4.1	6.4	3.9	4.1	4.3
Chen	7	T.C	2.3	4.6	4.4	6.3	2.6	4.0
Zhuo	8	T.C	2.3	3.2	1.5	3.0	3.1	2.6
Chen	9	T.C	5.3	6.7	6.5	4.3	6.9	5.9
Zhang	10	T.C	3.6	4.2	3.9	6.0	4.8	4.5

**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	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 (%)	Assessment
Sodium chloride test	As received	11	0.1	Pass
		12	0.2	
		13	0.1	
	Simulated wearing treatment	14	0.2	
		15	0.1	
		16	0.1	
	Mechanical strength + Temperature conditioned	17	0.1	
		18	0.2	
		19	0.1	
Paraffin oil test	As received	20	0.1	
		21	0.1	
		22	0.1	
	Simulated wearing treatment	23	0.1	
		24	0.1	
		25	0.1	
	Mechanical strength + Temperature conditioned	26	0.1	
		27	0.1	
		28	0.1	

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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	0.02	Mean value: 0.02	Pass
	34	0.02		
	35	0.03		

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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	0.39					0.40					0.40				
		95 l/min	1.41					1.37					1.38				
	Exhalation	160 l/min	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
1.91			1.94	1.93	1.93	1.90	1.92	1.92	1.93	1.95	1.93	1.91	1.93	1.94	1.92	1.93	
Simulated wearing treatment	Flow Rate		39					40					41				
	Inhalation	30 l/min	0.38					0.39					0.39				
		95 l/min	1.38					1.38					1.42				
	Exhalation	160 l/min	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
1.99			2.04	2.02	2.04	2.01	2.04	2.00	2.02	2.02	2.01	2.02	2.04	2.04	2.05	2.03	
Temperature conditioned	Flow Rate		42					43					44				
	Inhalation	30 l/min	0.29					0.32					0.31				
		95 l/min	1.16					1.13					1.10				
	Exhalation	160 l/min	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E
1.74			1.71	1.74	1.75	1.74	1.77	1.74	1.71	1.75	1.74	1.73	1.72	1.70	1.70	1.73	
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 inhalation air	4.5%
Breathing resistance(30L/min)	5.2%
Breathing resistance(95L/min)	5.4%
Breathing resistance(160)L/min)	6.0%

Remark: This report supersedes all previous documents bearing the test report number PTC20110500603C-EN01. Report number PTC20110500603C-EN01 was invalid.

## Amendments to report

Version	Date of issue	Changes
PTC20110500603C-EN01V01	2020.11.17	Product name

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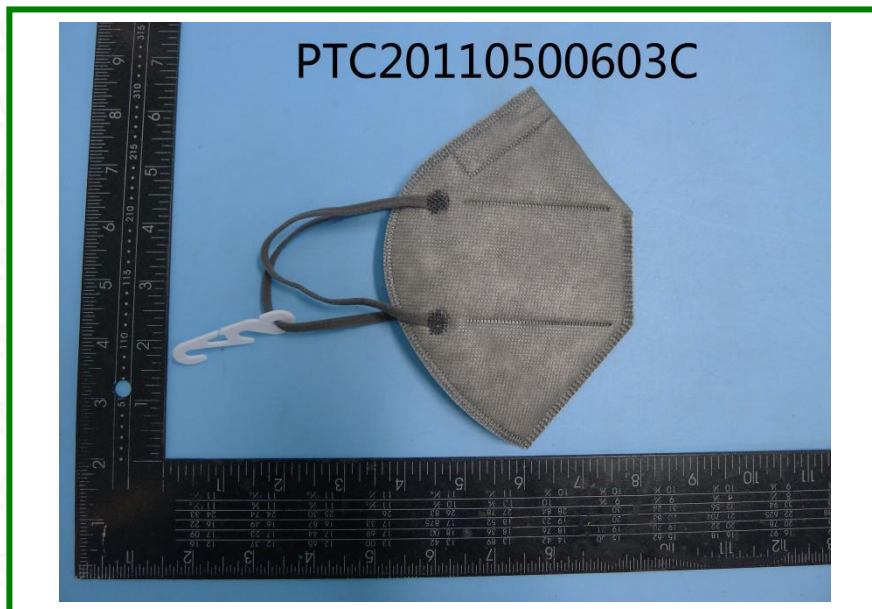
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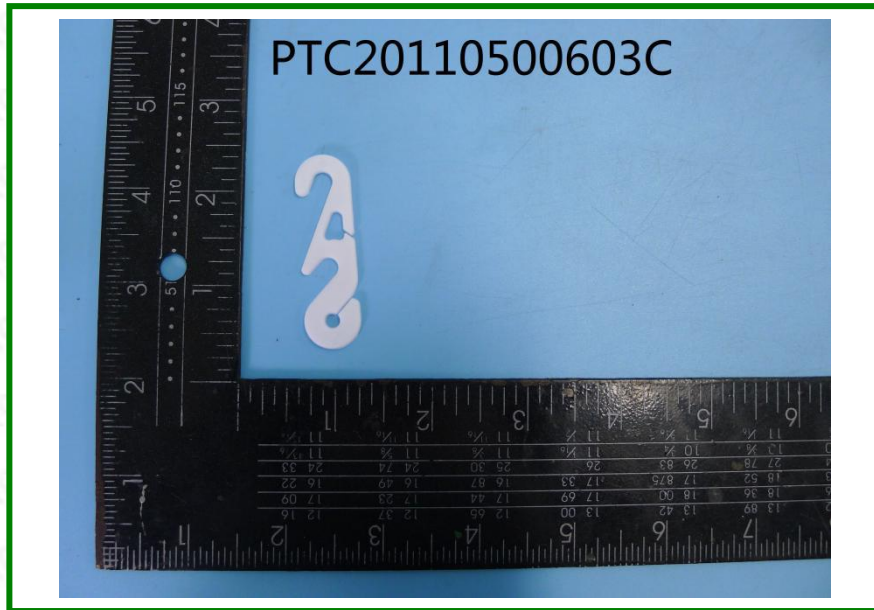


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