



CERTIFICADO DE CONFORMIDAD CON EL TIPO CONFORMITY TO TYPE CERTIFICATE



No.

0370-4487-PPE/C2

ORGANISMO NOTIFICADO Nº	0370 - LGAI TECHNOLOGICAL CENTER (APPLUS)				
SOLICITANTE APPLICANT	Shenzhen HJR Electronics Technology Co., LTD. 5 / F Building A3 Xinjianxing Science and Technology Industrial Park, No. 3333, Guangqiao Avenue, Gongming Street, Guangming New District, Shenzhen City, Guangdong Province, China				
FABRICANTE MANUFACTURER	Shenzhen HJR Electronics Technology Co., LTD 5 / F Building A3 Xinjianxing Science and Technology Industrial Park No. 3333, Guangqiao Avenue, Gongming Street, Guangming New District, Shenzhen City, Guangdong Province, China				
REGLAMENTO DE APLICACIÓN PARA DAR LA CO	ONFORMIDAD / APPLICABLE REGULATION TO GIVE CONFORMITY:				
	BRE LOS EQUIPOS DE PROTECCIÓ INDIVIDUAL 425 PERSONAL PROTECTIVE EQUIPMENT				
PROCEDIMIENTO DE EVALUACIÓN DE LA CONFORMIDAD CON EL TIPO CONFORMITY ASSESSMENT PROCEDURE TO TYPE	Módulo // Module: C2 BASADA EN EL CONTROL INTERNO DE LA PRODUCCIÓN MÁS EL CONTROL SUPERVISADO DE LOS PRODUCTOS A INTERVALOS ALEATORIOS BASED ON INTERNAL PRODUCTION CONTROL PLUS SUPERVISED CONTROL OF PRODUCTS AT ALEATORY INTERVALS				
IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO) IDENTIFICATION OF THE PPE (TYPE NUMBER)	Ref.: HJR-CN99-02 Particle filtering half mask				
NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI / PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE	FFP2 NR				
FECHA DE EMISIÓN / ISSUE DATE	28/09/2020				
VALIDEZ HASTA / VALIDITY UNTIL:	28/09/2021				

El presente certificado se mantendrá vigente durante 1 año siempre que no se modifiquen las condiciones establecidas en el Certificado de Examen UE de Tipo referenciado en el Anexo.

This certificate will remain in force for 1 year as long as the conditions established in the EU Type certificate referenced in the annex are not modified.

LGAI Technological Center, S.A.

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

técnico, cavo número coincide con el del certificado

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 into our website at: www.appluslaboratories.com/certified_products



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Technical Annex Ed. 1 28/09/2020

ANEXO TÉCNICO TECHNICAL ANNEX

0370-4487-PPE/C2

I. MODELOS INCLUIDOS EN EL CERTIFICADO

REFERENCES INCLUDED IN THIS CERTIFICATE

N° CERTIFICADO DE EXAMEN UE DE TIPO NR. EU TYPE EXAMINATION CERTIFICATE	0370-4369-PPE/B
EMITIDO POR ISSUED BY	LGAI TECHNOLOGICAL CENTER S.A. (APPLUS) (Organismo notificado nº 0370 / Notified Body nr. 0370).
FECHA EMISIÓN ISSUE DATE	09/09/2020
VALIDITY UNTIL	09/09/2025
MARCA BRAND	HJR
IDENTIFICACIÓN DEL EPI (NÚMERO DE TIPO) IDENTIFICATION OF THE PPE (TYPE NUMBER)	Ref.: HJR-CN99-02 Particle filtering half mask
NIVEL O NIVELES DE RENDIMIENTO O LA CLASE DE PROTECCIÓN DEL EPI / PERFORMANCE LEVEL OR PROTECTION CLASS OF THE PPE	FFP3 NR
INFORME DE ENSAYO DE CONFORMIDAD CON EL TIPO CONFORMITY TO TYPE TEST REPORT	PTC20090706602C-EN01 issued by Precise Testing & Certification (Guangdong) Co., Ltd.(PTC).







Test Requirement:

According to the requirement of the Module C2 (SPC CE-062_EN M3 PPE) of Applus+, the test item(s) of the sample is according to the standard EN149:2001+A1:2009.

Product: particle filtering half mask

Report No.: PTC20090706602C-EN01

APPLUS +With ID

number:

20/32301807

Client: Shenzhen HJR Electronics Technology Co.,LTD.

5 / F Building A3 Xinjianxing Science and Technology Industrial Park, No.

Client Address: 3333, Guangqiao Avenue, Gongming Street, Guangming New District,

Shenzhen City, Guangdong Province, China

Manufacturer: Shenzhen HJR Electronics Technology Co.,LTD.

5 / F Building A3 Xinjianxing Science and Technology Industrial Park, No.

Approved by:

Manufacturer Address: 3333, Guangqiao Avenue, Gongming Street, Guangming New District,

Shenzhen City, Guangdong Province, China

Contact: Hu Liang

Model(s): HJR-CN99-02

Classification: FFP2 NR

Date of Tests: 2020.09.14~2020.09.18

Signed for and on Behalf of PTC

Prepare by: Checked by:



Summary of assessment

Clause	Assessment
7.3 Visual inspection	PASS
7.5 Material	PASS
7.9.1 Total inward leakage	PASS
7.9.2 Penetration of filter material	PASS
7.12 Carbon dioxide content of the inhalation air	PASS
7.16 Breathing resistance	PASS

Remark:

PASS: comply with requirement of standard

N/A: not application

Not tested: the clause were not required



Test Result:

Test Result:		
Requirement	Test Result	Conclusion
7.3 Visual inspection		
The visual inspection shall also include the marking and the information supplied by the manufacturer.	Comply	Pass
7.5 Material		
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.	No mechanical failure after	
Any material from the filter media released by the air flow through the filter shall not constitute a hazard or nuisance for the wearer.	undergoing the conditioning described in	
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.	8.3.1, No collapse when conditioned in accordance with	Pass
When conditioned in accordance with 8.3.1 and 8.3.2 the particle filtering half mask shall not collapse.	8.3.1 and 8.3.2.	

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.

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

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%

results are shown in Annex A Table 7.9.2.

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

7.16 Breathing resistance

	Maximun	n permitted resist	ance (mbar)
Classification	_	Exhalation	
	30 l/min	95 l/min	160 l/min
O FFP1O	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



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	1.9	1.6	1.7	1.8	1.9	1.8
ÉLI É	2	A.R	1.2	1.6	1.5	1.5	1.1	1.4
Zhong	3	A.R	1.4	1.4	1.0	1.2	1.6	1.3
Xu	4	A.R	1.5	1.3	1.4	1.0	1.4	1.5
Ma	5	A.R	1.4	1.6	1.5	2.0	1.3	1.6
Chen	6	T.C	3.1	3.3	3.3	3.1	4.4	3.4
Chen	070	T.C	3.1	3.6	2.6	2.9	2.8	3.0
Zhuo	8	T.C	3.7	2.9	3.3	3.3	3.6	3.4
Chen	9	T.C	3.7	3.9	3.7	3.3	4.2	3.8
Zhang	10	T.C	3.0	3.0	2.8	2.8	2.9	2.9

Table 7.9.1-B: Facial dimension

Subject	Subject Face Length		Face Depth	Mouth Width
Lv	113	139	104	53
@ <u>%</u> 9i %	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	9 110	50
Zhuo	103	146	100	50
Chen	110	145	95	40
Zhang	144	141	101	54



Table 7.9.2: Penetration of filter material

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

Aerosol	Condition	Sample No.	Penetration (%)	Assessment
NO NO NO		N 11 N	0.1	40 40 6
	As received	12	0.1	0.0
		13	0.1	6 6 6
02 02 02	0 10 10 10	_0 140 _0	0.5	XO XO .
odium chloride test	Simulated wearing treatment	15	1.0	4. 4. 4
yo yo yo		16	0.9	No 26 9
		17	0.2	
	Mechanical strength + Temperature conditioned	18	0.2	8 8 6
	Temperature conditioned		0.1	20 Door
4, 4,	4 4 4	20	0.4	Pass
NO NO NO	As received	21	0.7	NO NO 8
0 0 0		22	0.2	
the site of	Ser Ser Ser Ser	23	0.2	6 6 6
Paraffin oil test	Simulated wearing treatment	24	0.2	,0 ,0 ,
40 ×0 ×0 4	5. 6. 6. 6.	25	0.3	6. 6. 6
	40 KO KO KO	26	0.2	40 40 8
	Mechanical strength + Temperature conditioned	27	0.2	
the site of	Temperature conditioned	28	0.3	6 6 6

Table 7.12: Carbon dioxide content of the inhalation air

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

Condition	Condition Sample No.		Result (%)				
8, 6,	29	0.02	6, 6, 6, 6,	6, 6, 6			
As received	30	0.02	Mean value:0.02	Pass			
	31	0.02	0 X0 X0 X				



Table 7.16: Breathing resistance (mbar)

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

	Flow Ra	ite	6		32			6		33			34						
	Inhalation	30 I/min	5 1	9 /	0.53	χο	2	20	20	0.52	25	1 1	2	9 2	0.50	χQ.,	20		
As received	imalation	95 I/min			1.73			Y	36	1.74) c				1.69	-6-	ς 0		
	Exhalation	160 I/min	A 1.76	B	C	D	E 1.76	A 174	B	C	D 1.77	E 1.75	A 160	B	C	D	1.67		
\$ 5 V	Flow Ra	ite	1.76	1.71	1.72 35	1.78	1.76	1.74	1.76	1.78 36	1.77	1.75	1.69	1.70	1.70 37	1.67	1.0		
Simulated	Inhalation	30 I/min	()	6	0.41		8	₹**	8	0.42	8	4	8	Ó	0.43		8		
wearing treatment	95 I/min		1 6	Q é	1.45	KG.	AG.	é ^{CO}	2/0	1.40	8/5	6		0	1.48	KO 3	Z ^C C		
-0 -0 -0	Exhalation	160	Α	В	С	D	Æ	Α	В	С	D	E	А	В	С	D	E		
8, 8,		l/min	1.54	1.58	1.57	1.54	1.54	1.58	1.52	1.52	1.52	1.51	1.54	1.52	1.52	1.56	1.5		
	Flow Ra	ite	1	38			39				40								
Temperature	Inhalation	30 I/min	ی د	0.43 0.44						1 2	0.44								
conditioned	IIIIaiation	95 I/min	. %	×	1.44		1.42					Α,	1.43						
	Exhalation	160	Α	В	С	D	E	Α	В	С	D	E	Α	В	С	D	E		
NO NO	Exhaution	20 X	20 X	l/min	2.09	2.06	2.05	2.07	2.06	2.06	2.02	2.05	2.04	2.01	2.03	2.02	2.02	2.00	2.01
	Flow Ra	ite			41				42				43						
Flow	Inhalation	30 I/min	Q	8	0.49		6	Ś.	by.	0.49	6,1	8	8	9	0.52	1	3,		
conditioned	IIIIaiation	95 I/min	0	6	1.63	30	g/G	1.64			6	1.59							
	Exhalation	160	Α	В	С	D	E	Α	В	С	D	E	Α	В	С	D	E		
	Exhalation	Exhalation	Exhalation	I/min	1.80	1.81	1.79	1.79	1.78	1.82	1.84	1.81	1.80	1.79	1.82	1.83	1.79	1.82	1.78

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

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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:







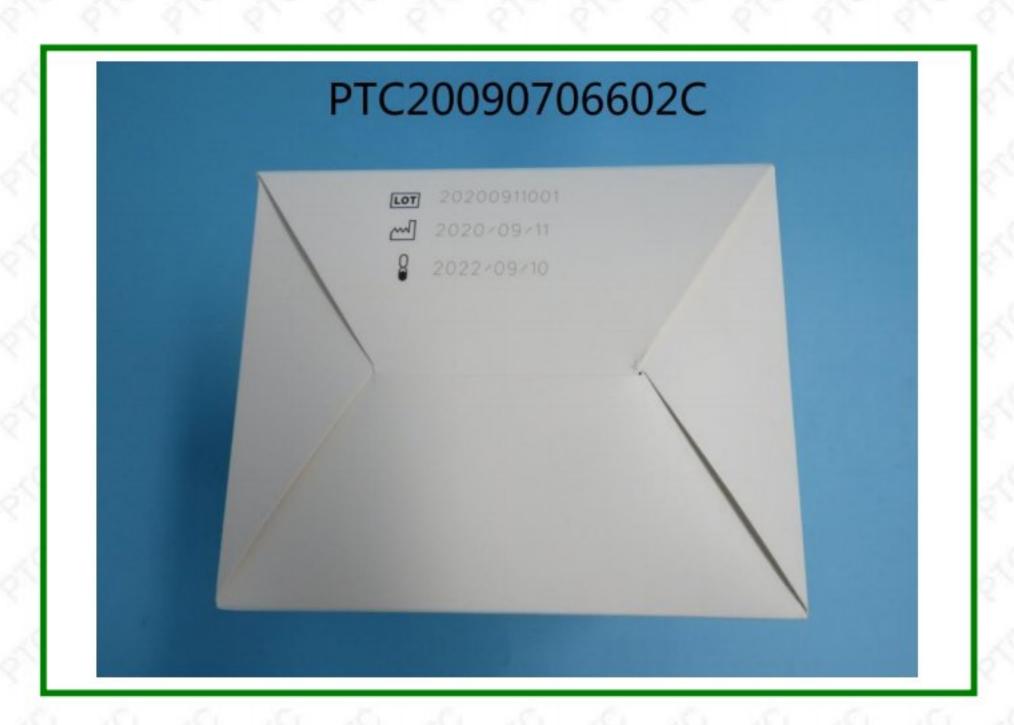


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PTC20090706602C
产品合格证 CERTIFICATE
产品名称:
Product Name: Particle filtering half mask
产品型号 (Product Model): HJR-CN99-02
产品等级 (Performance Rating): FFP2 NR
主要成分: 无纺布、熔喷布
Main Components: Non-woven fabric .
Melt-blown fabric
产品规格 (Product Specification):
生产日期 (Production Date): 2020/09/11
生产批号 (Batch Number): 20200911001
执行标准 (Executive Standard) (EN 149:2001+A1:2009
有效期(Term of Validity):年(2 years)
检验员(Examination Clerk): 08
深圳市恒久環地子科技有限公司 Shenzhen HJR Electronics Technology Co., LTD. 深圳市完明新区公明街道光桥大道 3333 号新健兴科技工业园 A3 株 5 楼 5 / F Building A3 Xinjianxing Science and Technology Industrial Park, No. 3333, Guangqiao Avenue, Gongming Street, Guangming New District, Shenzhen City, Guangdong Province, China (非医用) (Non-medical device)



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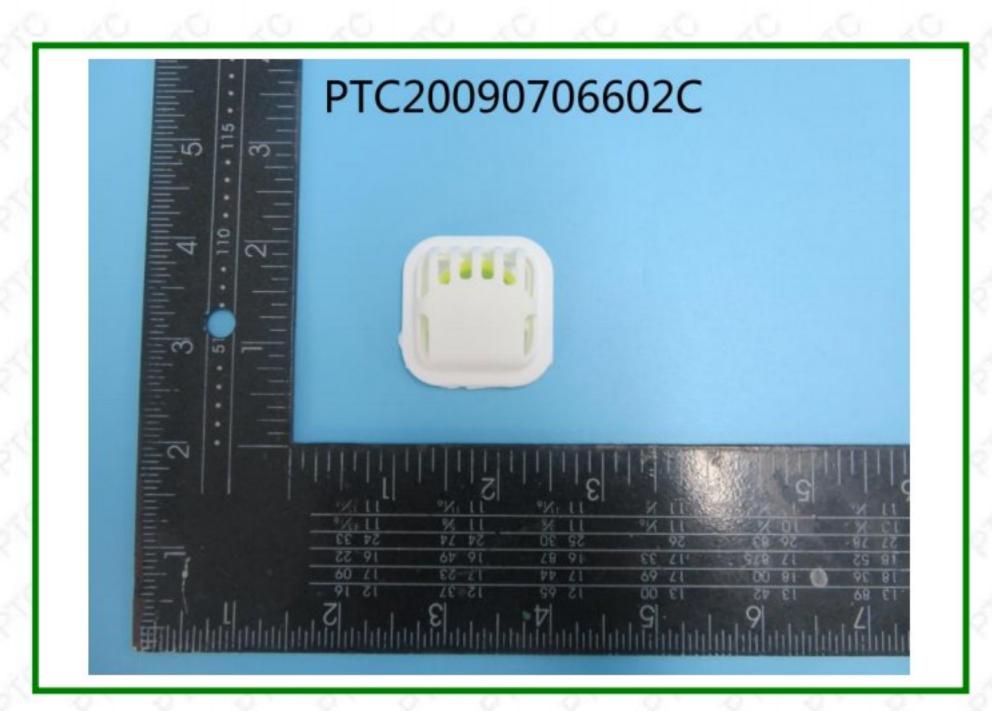


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End of Report