



## Shanghai Penco Industrial Co.,Ltd

# CE PPE TEST REPORT

Prepared For :	Shanghai Penco Industrial Co.,Ltd Room 307, Building 5, No. 659, Yinxing Road, Putuo District, Shanghai
Product Name:	Fireman Helmet
Trade Name:	/
Model :	PC-FHUSA01B
Additional model:	PC-FHEU101D , PC-FHEU101B, PC-RS01C, PC-RS01E, PC-FHEU201, PC-FHK01A, PC-RS01S, PC-RS01G, RS-01H
Prepared By :	CTIC Testing Group (Guangdong) Co., Ltd. 201, Building A1 Lilang International Jewelry industrial Park, No.31, BulanRoad,Xialilang Community,Nanwan Street, Longgang District, Shenzhen,Guangdong,China
Test Date:	May.13.2024 To May.20.2024
Date of Report :	May.20.2024
Report No.:	<b>CTICAKG19242498052041AR</b>

2172gy

CS9C13



<b>Test judgement terms:</b>	
<b>Possible test case verdicts:</b>	
- test case does not apply to the test object:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement:	F (Fail)
<b>testing environment:</b>	
temperature .....	15-25℃
Humidity.....	50-65%RH
Pressure.....	101kPa

### TEST REPORT DECLARATION

Applicant	:	Shanghai Penco Industrial Co.,Ltd
Address	:	Room 307, Building 5, No. 659, Yinxing Road, Putuo District, Shanghai
EUT Description	:	Fireman Helmet
Model Number	:	PC-FHUSA01B
<b>Testing laboratory</b>		
Name	:	CTIC Testing Group (Guangdong) Co., Ltd.
Address	:	201, Building A1 Lilang International Jewelry industrial Park, No.31, BulanRoad,Xialilang Community,Nanwan Street, Longgang District, Shenzhen,Guangdong,China

Test Standards:

**EN 443:2008**

The EUT described above is tested by CTIC Testing Group (Guangdong) Co., Ltd. Reliability Laboratory to determine the harsh environments from the EUT and ensure the Reliability to be compliance with the environments requirements of the EUT. CTIC Testing Group (Guangdong) Co., Ltd. Reliability Laboratory is assumed full responsibility for the accuracy of the test results. The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Tested by: *Chen Liang*



Reviewer: *Jingke Zhou* Approved: *Jingke Zhou*



**Sample Description:**

**helmet material composition : Fire-resistant plastic material**

**TEST RESULTS**

TEST PARAMETER Test method	Requirements acc.to EN 443:2008 EN 13087:2000 ISO 17493	RESULT
I.heat resistance (Helmet)  EN 443:2008.5.12 ISO 17493,5.1;6.2	Conditioned the sample for 24 h at Temperature(20±2)°C Relative Humidity (65±5)% Test Temperature:100°C Exposion 20 minutes Test Temperature:180°C Exposion 5 minutes -It shall not show evidence of charring, deformation,delamination,hole formation, ignition,melting,separating,or splitting while still on the Headform.	PASS  PASS
2.heat resistance (Visor) EN 443:2008,5.12 ISO 17493,5.1;6.2	Conditioned the sample for 24 h at Temperature (20±2)°C Relative Humidity (65±5)% Test Temperature:100°C Exposion 20 minutes Test Temperature:180°C Exposion 5 minutes -It shall not show evidence of charring deformation,delamination,hole formation, ignition,melting,separating,or splitting while still on the Headform.	PASS  PASS
3.heat resistance (Neck protection material) EN 443:2008,5.12 ISO 17493,5.1;6.2	Conditioned the sample for 24 h at Temperature (20±2)°C Relative Humidity (65±5)% Test Temperature:100°C Exposion 20 minutes Test Temperature:180°C Exposion 5 minutes -It shall not show evidence of charring, deformation,delamination,hole formation, ignition,melting,separating,or splitting while still on the Headform.	PASS  PASS



TEST PARAMETER Test method	Requirements acc.to EN 443:2008 EN 13087:2000 ISO 17493	RESULT
4 Shock absorption EN 443:2008,c.5.12 EN 13087-1 EN 13087-2:2012 c.5.2 Falling mass method	Striker type:hemispherical Mass:(5,0±0,05)kg striking face of radius(50±1)mm Impact energy:(123±3)J	PASS
5.Resistance to penetration EN 443:2008,c.5.12 EN 13087-3	Striker type:flat blade striking face diameter:(1000±15)g striking face diameter:(100±2)mm Impact energy:(24,5±1)J	PASS
6.Electrical properties Conductive head form test EN 443:2008,c.5.14.1 EN 13087-8:2000,c.5.2	Immerse the complete sample helmet and retention system in fresh tap water at room temperature for a period of (15 ±2)min.Remove the helmet from the water and allow to drain for between 1 and 2 min max. Test voltage:(1200±25)V/50 Hz Time:(15±2)s The leakage current shall not be more Than 1,2 mA	PASS
Wet helmet insulation test EN 443:2008,c.5.14.2 EN 13087-8:2000.c.5.3	Place the helmet shell in a(3±0,2)g/l solution of sodium chloride at a temperature of (22±5)°C for (24±0,5) h.Remove the helmet shell,wipe it and place it upside down in a container of appropriate size.Fill the container and the helmet shell with the sodium chloride solution,up to 10 mm below the lowest point on the lower (as worn) edge of the shell. Test voltage:(1200±25)V/50 H Time:(15±2)s -The leakage current shall not be more Than 1,2 mA	PASS
Surface insulation test EN 443:2008,c.5.14.3 EN 13087-8:2000.c.5.4	The shell of the helmet is dry before the test. Test voltage:(1200±25)V/50 Hz Time:(15±2)s The leakage current shall not be more Than 1,2 mA	PASS
7.Helmet adjustment EN 443:2008,c.5.1.2	Size 54 to size 62	PASS

### Sample photos

 **PENCO**



**PC-FHUSA01B**

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**PC-FHEU101D**

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**PC-FHEU101B**

 **PENCO**



**PC-RS01C**

 **PENCO**



**PC-RS01E**



**PC-FHEU201**

 **PENCO**



**PC-FHK01A**



**PC-RS01S**



**RS-01H**



**PC-RS01G**

**\*\*\*End of report\*\*\***