



中国认可 国际互  
认 检测  
TESTING  
CNAS L0472

# TEST REPORT

No. Zb2018Z0113

Standard code : GA44-2015

Product name       FTK-Q/F Fire Fighting Helmet  
Authentication      Guangdong Youright Trade Co., Ltd.



Name: China National Fire Equipment  
Quality Supervision Centre  
Address: 391 Xi Huan Road, Xinzhuang  
Shanghai, P.R.China  
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China Fire Equipment Quality Supervision and Inspection Center  
Inspection Report

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Authentication	Guangdong Youright Trade Co., Ltd.		
Address	No.4,Guda Road,Changcheng,Foshan,GD,China		
Phone	13432698470	Fax	0757-4058123

Product Image



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一. Product nameplate content	
product name	Fire helmet
Model specification	FTK-Q/F
Producer and/or production company	Guangdong Youright Trade Co., Ltd.
Identification number or manufacturing date	Yes
Inspection mark	Yes
Executive standard	GA44-2015
Warning words	/
二. Product feature description	
Cap shell molding process	Injection molding
三. Description of key product parts	
1. Cap shell material name, model specification, material supplier	Flame-retardant reinforced nylon (Z-SFRPA6), B909-H Suzhou Ebon Engineering Plastic Co., Ltd.
2. Cap shell model specification, manufacturer	MK-03 Changzhou Aoxin Plastic Co., Ltd
3. Buffer layer material name, model specification, material supplier	(AX) Juxing, YD-330N Wuxi Huihuang Furniture Fittings Factory
4. Buffer layer model specification, manufacturer	HC-03 Changzhou Aoxin Plastic Co., Ltd. (AX)
5. The name of the cap support material, model specification, material supplier	Polyester webbing, (50 soil 2.5) mm Jiangshan Xiang'an Rope Processing Factory
6. Cap holder model specification, manufacturer	MT-03 Zhejiang Dongan Fire Equipment Technology Co., Ltd. (DA)
7. The name of the material, model specification, and material supplier are issued under the	Flame-retardant webbing, XFZD Shanghai Mingqian Industrial Co., Ltd.
8. Mask material name, model specification, material supplier	Polyphenylene PPSU, 3010 Shanghai Speed Rubber & Plastic Co., Ltd.
9. Mask model specifications, manufacturer	MZ-03 Changzhou Aoxin Plastic Co., Ltd. (AX)
10. Shawl material name, model specification, material supplier	Aramid aluminum foil cloth, aramid multi-component flame-retardant fabric, GB200, XF360 Shanghai Mingqian Industrial Co., Ltd.
Consistency check conclusion: compliant	

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NO.	Inspection item	Standard request	Inspection results		
1	Material and structure	It shall meet the requirements of 5.1	qualified		
2	appearance requirement	It shall meet the requirements of 5.2	qualified		
3	Impact absorption property	High temperature pretreatment	Maximum impact force $\leq$ 3780N No debris shall fall off the cap shell, no damage or fracture shall be caused to the cap bracket, and no damage or fracture shall be caused to the connecting mechanism between the cap cap and the cap shell	3011.3 qualified	
		Radiant heat pretreatment	Maximum impact force $\leq$ 3780N No debris shall fall off the cap shell, no damage or fracture shall be caused to the cap bracket, and no damage or fracture shall be caused to the connecting mechanism between the cap cap and the cap shell	2799.3 qualified	
		Low temperature pretreatment	Maximum impact force $\leq$ 3780N No debris shall fall off the cap shell, no damage or fracture shall be caused to the cap bracket, and no damage or fracture shall be caused to the connecting mechanism between the cap cap and the cap shell	3515.6 qualified	
		Immersion pretreatment	Maximum impact force $\leq$ 3780N No debris shall fall off the cap shell, no damage or fracture shall be caused to the cap bracket, and no damage or fracture shall be caused to the connecting mechanism between the cap cap and the cap shell	2790.5 qualified	
4	Resistance to impact acceleration	The top of hat	Maximum impact acceleration $\leq$ 150gn	130.1	
		The front of the hat	Maximum impact acceleration $\leq$ 400gn accelerated speed >150gn, duration<6ms	278.9 5	
			accelerated speed >200gn, duration<3ms	2.2	
		The side of the hat	Maximum impact acceleration $\leq$ 400gn accelerated speed >150gn, duration<6ms	309.4 4.9	
			accelerated speed >200gn, duration<3ms	2.3	
		The back of the hat	Maximum impact acceleration $\leq$ 400gn accelerated speed >150gn, duration<6ms	275.7 4.8	
			accelerated speed >200gn, duration<3ms	2.1	
		5	Penetration resistance	The steel cone shall not penetrate the helmet and make contact with the head die	qualified
6	Fire resistance	After the fire source leaves the cap, the cap flame should be extinguished within 5 seconds	qualified		

No.	Inspection item		Standard request	Inspection result
7	chin strap	The length of the damaged (mm)	$\leq 100$	9
		after flame time (s)	$\leq 2$	0
		The test phenomenon	There should be no melting, dripping phenomenon	qualified
	wraps	The length of the damaged (mm)	$\leq 100$	26
		after flame time (s)	$\leq 2$	0
		The test phenomenon	There should be no melting, dripping phenomenon	qualified
	veil	after flame time (s)	$\leq 5$	0
		The test phenomenon	There should be no melting, dripping phenomenon	qualified
	8	resistance to effect of heat		The cap shall not touch the headform and shall not be significantly deformed
There shall be no visible deformation or damage to the cap, cap rest, buffer layer and chin band				qualified
Cap adjusting devices, chin strap locking devices, accessories and hardware shall maintain their original functions				qualified
No part shall be ignited or melted				qualified
The mask should be free from obvious deformation and damage				qualified
9	dielectric protecties		Cap leakage current $\leq 3.0\text{mA}$	0.9
10	Tensile strength of chin band		Extension length $\leq 20\text{mm}$	18.1
			There should be no fracture of the chin band, loose connectors and loose buckles	qualified
11	Lateral rigidity		Maximum deformation of cap case $\leq 40\text{mm}$	33.5
			Deformation after unloading $\leq 15\text{mm}$	3.1
			The cap should not be broken off	qualified
12	Stability of helmet wearing device		The requirements of 5.3.10 shall be met	qualified
13	Corrosion resistance of metal parts		The requirements of 5.3.11 shall be met	qualified
14	Impact resistance of mask		There should be no breakage	qualified
15	High speed particle impact resistance of mask		There should be no breakage	qualified

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NO.	Test items		Standard request	Inspection result		
16	Optical performance of mask	spherical equivalent	-0.12~0.12	-0.07		
		astigmatic power	≤0.12	0.08		
		Spherical degree local variation	≤0.09	0.03		
		Difference of prism	horizontal direction	Basal outward	≤1	0.65
				Basal inward	≤0.25	/
			vertical direction	≤0.25	0.14	
		Mask transmittance	without color	≥85	/	
light color	≥43		60.1			
17	The shawl is waterproof and resistant to hydrostatic pressure		≥17	>17		
18	view	Left level	≥105	>105		
		The right level		>105		
		up	≥7	>7		
		down	≥45	>45		
19	quality		≤1800	1517		
20	mark		The requirements of 8.1 shall be met	qualified		



扫码查验  
证书信息



中国认可  
产品  
PRODUCT  
CNAS C073-P



发证机构名称 (盖章)

**应急管理部消防产品合格评定中心**



## **SPECIFICATION**

<b>Products Name</b>	<b>Fire Fighting Helmet (Model : FTK-Q/F)</b>
<b>Color</b>	<b>RED</b>
<b>Material</b>	<b>Flame-retardant reinforced nylon(Z-SFRPA6),B909-H</b>
<b>Application</b>	<b>Petroleum/power plant/construction/mine/port</b>
<b>Feature</b>	<b>Impact resistance/high strength/strong toughness/electrical insulation</b>

