



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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|                |   |     |              |
|----------------|---|-----|--------------|
| 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<br>Suzhou Ebon Engineering Plastic Co., Ltd.                               |
| 2. Cap shell model specification, manufacturer   | MK-03<br>Changzhou Aoxin Plastic Co., Ltd  |
| 3. Buffer layer material name, model specification, material supplier                        | (AX) Juxing, YD-330N<br>Wuxi Huihuang Furniture Fittings Factory   |
| 4. Buffer layer model specification, manufacturer  | HC-03<br>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<br>Jiangshan Xiang'an Rope Processing Factory  |
| 6. Cap holder model specification, manufacturer  | MT-03<br>Zhejiang Dongan Fire Equipment Technology Co., Ltd.<br>(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<br>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<br>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<br>qualified  |  |            |
|  |  | Radiant heat pretreatment   | Maximum impact force $\leq$ 3780N<br>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<br>qualified  |  |            |
|  |  | Low temperature pretreatment  | Maximum impact force $\leq$ 3780N<br>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<br>qualified  |  |            |
|  |  | Immersion pretreatment  | Maximum impact force $\leq$ 3780N<br>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<br>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<br>accelerated speed >150gn, duration<6ms | 278.9<br>5 |
| accelerated speed >200gn, duration<3ms | 2.2  |   |  |                      |  |            |
| The side of the hat                    | Maximum impact acceleration $\leq$ 400gn<br>accelerated speed >150gn, duration<6ms |   |  | 309.4<br>4.9         |  |            |
|  | accelerated speed >200gn, duration<3ms   |   |  | 2.3                  |  |            |
| The back of the hat                    | Maximum impact acceleration $\leq$ 400gn<br>accelerated speed >150gn, duration<6ms |   |  | 275.7<br>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



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产品  
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应急管理部消防产品合格评定中心