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检测  
CNAS L0531

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公警检(委)字第205420号

# TEST REPORT

Sample Name: Anti Riot Helmet

Model: FBK-L

Applicant Name : FOX ARMOUR CO.,LTD

Test type: Authority test

Test Basis: GA294-2001 Anti Riot Helmet

for Police Using

Test Date: 7th December 2020

The Quality supervision and inspection center for  
special police equipment of police department



Testing Center For Quality of Special Police Equipments Under The Ministry Of  
Public Security Of P.R.China

TEST REPORT

205420

7 pages in total No.1

Sample Name	Anti-riot Helmet	Item No.	FBK-L
Manufacturer	Fox Armour Co.,Ltd	Contact No.	0572-8265660
Address	No.171, Yixian Road, Fuxi, Zhejiang Province, China	Postal Code	313200
Source of Mission	Fox Armour Co.,Ltd	Type of Inspection	Commissioned
Quantity of Sample	4pcs	The Way for Sample	To be sent
The Code in Factory	NA	Sample Code	1-4
The Date of Sending Samples	30 <sup>th</sup> , Nov. 2020	By	Carl Fan
According to	GA294-2001 Police Anti-riot Helmet		
	/		
Date of Testing	During 30 <sup>th</sup> , Nov. 2020 to 7 <sup>th</sup> , Dec. 2020		
Items of Inspection	Identify color, instruction, absorbing impact energy, impact resistance, stab resistance and so on.		
Inspection Result	In accordance with <GA294-2001 Police Anti-riot Helmet> Issue Date: 7 <sup>th</sup> , Dec. 2020 <span style="border: 1px solid red; padding: 2px;">以下空白</span>		
Remarks:	The statue of sample before inspect: Normal		

Compiled:

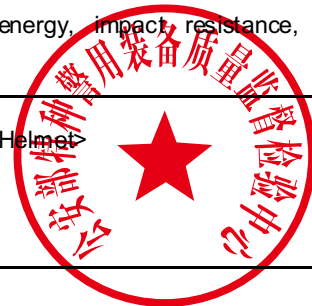
唐锋

Audit:

郭小群

Ratify:

胡书昂



Testing Center For Quality of Special Police Equipments Under The Ministry Of  
Public Security Of P.R.China

TEST REPORT

205420

7 pages in total No.2

<p>The Address of Inspection</p>	<p>Testing Center For Quality of Special Police Equipments Under The Ministry Of Public Security Of P.R.China</p> <p style="text-align: center;">/</p>
<p>Environment (request special environment)</p>	<p>Indoor: temperature 16°C, humidity: 46%RH, atmospheric pressure: 100 hPa</p> <p style="text-align: center;">/</p>
<p>Main Equipemnts Of Inspecting</p>	<p>Standard measuring tools                  General Machinery &amp; hand tools                  Type ACS-30 Electronic Scale                  Type AQ JL-300 Impact testing machine of folling weight                  Type REGER 4000 Electronic &amp; Universal testing machine                  Type MF210 High temperature testing box                  Type WD710 Low temperatu re testing box                  Type WGT-S light transmittance testing machine                  Type Y571B Color fastness testing machine                  Optical distortion testing equipment                  Plumb Launcher                  Bunsen burner</p>
<p>Description of testing samples</p>	<p>Testing sample FBK-L Anti-riot Helmet is consist of casing, resilient coating, detachable equipment of wearing, visor, neck protector and so on, the casing is made in engineering plastic.</p>



## TEST REPORT

205420

7 pages in total No.3

Test Item, Test Result					
NO.	Test Item	Technical (standard) Requirement	Sample Code	Test Result	Deci- sion
1	Shape Test	Should in accordance with the requirement of picture A1 in attachment A, the shape meet the requirement of Median Sagittal Plane and Coronal plane curve	No.1-4	satisfactory	P
2	Sign Test	Should in accordance with the requirement of the attachment A, stick up black English word "police" in left side, word height 25mm, length 100mm, stick up black Chinese word "警察" word height 35mm, length 100mm, stick up as required size	No.1	satisfactory	P
3	The size of installing cap badge Test	The cap badge of No.99 police cloth is used, the position see attachment A, the distance of hole is 22mm	No.1	satisfactory	P
4	Color Test	The color of helmet is same as the color of No.99 police cloth(navy)	No.1	satisfactory	P
5	Structure Test	The helmet consists of case, resilient coating, dismountable equipment, visor, neck protector and so on	No.1-4	satisfactory	P
6	Case appearance Test	It shouldn't have dent, fragmentation, aculeus on the appearance, edge should be covered by rubber	No.1-4	satisfactory	P
7	Goggles, belt connection Test	Connecting parts of Goggles shouldn't exceed the exterior appearance of case 15mm, connecting parts of belt shouldn't exceed intrior & exterior 3mm, without rough edges	No.1	satisfactory	P
8	Wearing & width of belt Test	Wearing requirements: strong, suitable, convenient to wear & take off. The width of belt: 20mm±2mm.	No.1	satisfactory	P

P=Passed F= Failure N= No need to test A=Approved



Testing Center For Quality of Special Police Equipments Under The Ministry Of  
Public Security Of P.R.China

## TEST REPORT

205420

7 pages in total No.4

Test Item, Test Result					
NO.	Test Item	Technical (standard) Requirement	Sample Code	Test Result	Deci- sion
9	The strength of wearing equipment Test	Load 15kg at the beginning, test load 90kg, the length of belt with extension not exceed 25mm, without broken; And connection parts don't drop off, straps don't loose.	No.1	The maximum length of belt is 21.0mm	P
10	Neck Protector Test	It is detachable, the length of neck protector is 120mm±20mm.	No.1	The width of neck protector is 119.0mm	P
11	The Mass of Helmet(include accessories) Test	Not exceed 1.60kg.	No.1	No.1:1.60kg	P
12	Specification Test	M is suit for head size 560mm to 580mm. L is suit for 580mm to 600mm.	No.1	satisfactory	P
13	Vision Test	Lateral visibility not less than 105° ; Verical visibility- up not less than 7° , down not less than 30° .	No.1	satisfactory	P
14	Visibility of Visor Test	The diameter of any flaws or black spots on visor aren't exceed 1mm, the quantity not exceed 4pcs.	No.1	satisfactory	P
15	Transmittance of Visor Test	Transmittance of Visor not less than 85%.	No.1	Transmittance of Visor is 89.6%	P
16	Optical distortion Test	The maximum of Optical distortion is 6'	No.1	The Optical distortion is 3'	P
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Testing Center For Quality of Special Police Equipments Under The Ministry Of  
Public Security Of P.R.China

## TEST REPORT

205420

7 pages in total No.5

Test Item, Test Result					
NO.	Test Item	Technical (standard) Requirement	Sample Code	Test Result	Deci- sion
17	fogging resistance Test	Put it on the container which holds 50°C±5°C water, 15 seconds later, without fogging	No.1	satisfactory	P
18	Visor Wear-resistant Test	under the action of 350g force, steel wool rubs against the visor 600 times, Haze?2.5%	No.1	Haze=2.1%	P
19	Visor (high temperature) impact resistance Test	After putting the visor at 50°C±2°C temperature 4 hours, wearing on the model, aim at the nose use 1000g hammer fall from 500mm±5mm , test twice, the face can not be touched by visor , and the visor can work normally.	No.2	satisfactory	P
20	Visor (low temperature) impact resistance Test	After putting the visor at -20°C±2°C temperature 4 hours, wearing on the model, aim at the nose use 1000g hammer fall from 500mm±5mm , test twice , the face can not be touched by visor , and the visor can work normally.	No.3	satisfactory	P
21	Visor (rain) impact resistance Test	The visor was drenched through with rain for an hour, then wearing on the model, aim at the nose use 1000g hammer fall from 500mm±5mm , test twice , the face can not be touched by visor , and the visor can work normally.	No.4	satisfactory	P
22	Anti-leakage Test	Squirt the test area of helmet with 25ml of the tested liquid from all sides, the test area of helmet can not be printed	No.1	satisfactory	P
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Testing Center For Quality of Special Police Equipments Under The Ministry Of  
Public Security Of P.R.China

TEST REPORT

205420

7 pages in total No.6

Test Item, Test Result					
NO.	Test Item	Technical (standard) Requirement	Sample Code	Test Result	Deci- sion
23	Visor (high temperature) absorb the energy of collision Test	After putting the visor at 50°C±2°C temperature 4 hours, wearing on the model, aim at front, back, left & right side , drop from 1835mm±5mm , test twice, during the test, it can not be broken.	No.2	satisfactory	P
24	Visor (low temperature) absorb the energy of collision Test	After putting the visor at -20°C±2°C temperature 4 hours, wearing on the model, aim at front, back, left & right side , drop from 1835mm±5mm , test twice, during the test, it can not be broken.	No.3	satisfactory	P
25	Visor (rain) absorb the energy of collision Test	The visor was drenched through with rain for an hour, then wearing on the model, aim at front, back, left & right side , drop from 1835mm±5mm , test twice, during the test, it can not be broken.	No.4	satisfactory	P
26	Penetration resistance of helmet Test	A 3kg steel pricker free fall from 3000mm±5mm, test twice, the distance between tested parts is more than 75mm, the steel pricker can not impale the helmet and touch the model.	No.1	satisfactory	P
27	Fire resistance Test	Daub 50% methylbenzene & 25ml Isooctane mixed solvent on the face of helmet & visor, rest 30 seconds, light the helmet, the flame should burn out in 10 seconds.	No.1	satisfactory	P
28	The strength of Shock Resistance Test	Weight 1g, 5mm diameter plumb shoot the helmet, the visor should not be penetrated & broken	No.1	satisfactory	P
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Testing Center For Quality of Special Police Equipments Under The Ministry Of  
Public Security Of P.R.China

## TEST REPORT

205420

7 pages in total No.7

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Picture 1, The appearance of helmet FBK-L