

Cert. №: LF20212303



中国认可
国际互认
检测
TESTING
CNAS L0269

Certificate of Test

Client: Shanghai Sturdyarmor New Material Technology Co.,Ltd

Address: 1Floor,No.999,HuSong Rd., Songjiang Zone,
Shanghai,China

Sample Name: Ballistic Helmet

Physical and Chemical Inspection Center in Non-metals
Material of Ordnance Industries


Aug.03.2021

Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries

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Sample Name	Ballistic Helmet	Test Type	Consignation Test
Client	Shanghai Sturdyarmor New Material Technology Co.,Ltd	Address	1Floor,No.999,HuSong Rd., Songjiang Zone,Shanghai,China
Contact Person	SUN JUN	Phone	021-57680930
Date Received	07/30/2021	Date Tested	08/03/2021
Sample Amount	1	Sample No.	GJ0730-1
Test Standard	NIJ 0106.01 NIJ Standard for Ballistic Helmets NIJ 0101.06 Ballistic Resistance of Body Armor IIIA(.44 Mag.)		
Categories	Ballistic Resistance		
Test Conclusion	<p>The Ballistic Helmet provided by Shanghai Sturdyarmor New Material Technology Co.,Ltd was tested according with NIJ 0106.01 & NIJ 0101.06 IIIA(.44 Mag.). Under normal temperature and humidity, no perforation occurs aftser 5 fair shots at different points of the sample with .44 Magnum SJHP and the maximum indentation depth is 24.1mm.</p> <p>Laboratory configuration, sample description and test results are showed from Page 2 to 4.</p> <div style="text-align: center;">  <p>Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries Aug.03.2021 业务专用章</p> </div>		
<p>Prepared By: <i>Grabo</i> Reviewed By: <i>Reisgang</i> Approved By: <i>Derwin</i></p>			

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Laboratory Configuration	
Test Unit	Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries
Ambient Test Conditions	Temperature: 22 °C; Relative Humidity: 46%.
Setup	Weapons: Ballistic Barrel Bullets: .44 Magnum SJHP Electrical chronometer (No.:6015) Caliper Gauge(No.: 11242252) Electronic Balance (No.:F40604303)
Test Range	5m
Angle of Incidence	0°
Sample Description	
Sample No.	GJ0730-1
Configuration	The helmet shell is made of aramid composites.
Remarks	※ The indentation depth was measured referring to HPW-TP-0401.01B.

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Results of Ballistic Resistance Test

Sample Parameters				
Sample No.	Thickness(mm)	Weight (g)	Conditioning	
GJ0730-1	8.5	1644	Normal Temperature and Humidity	
Test Results				
Shot No.	Impact Point	Velocity(m/s)	Results	Indentation Depth(mm)
1	Front	435.4	Stop	21.0
2	Back	440.5	Stop	23.5
3	Left	432.6	Stop	22.2
4	Right	430.5	Stop	24.1
5	Crown	432.0	Stop	18.7
Remarks	Bullets: .44 Magnum SJHP.			

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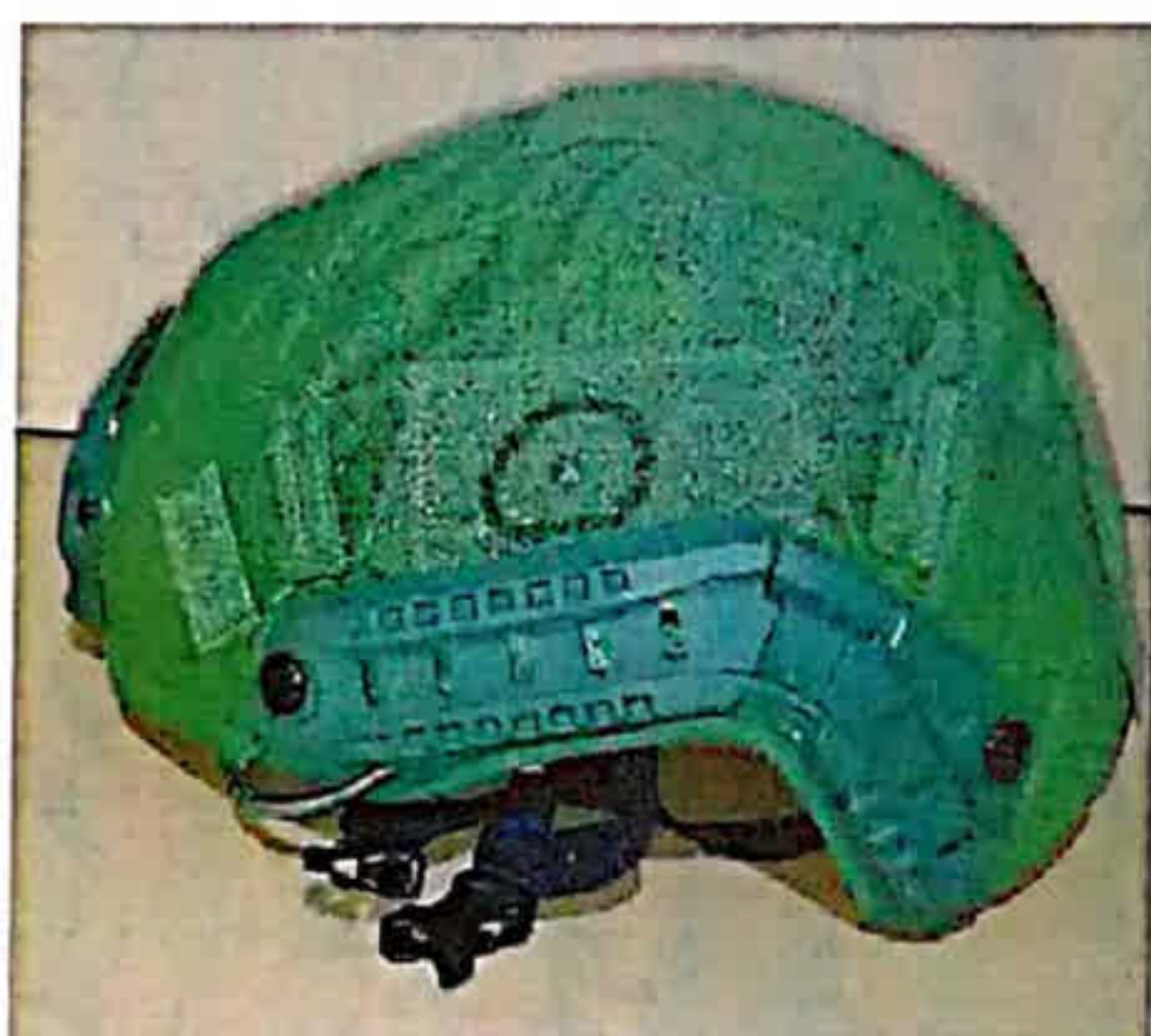
Attached Pictures



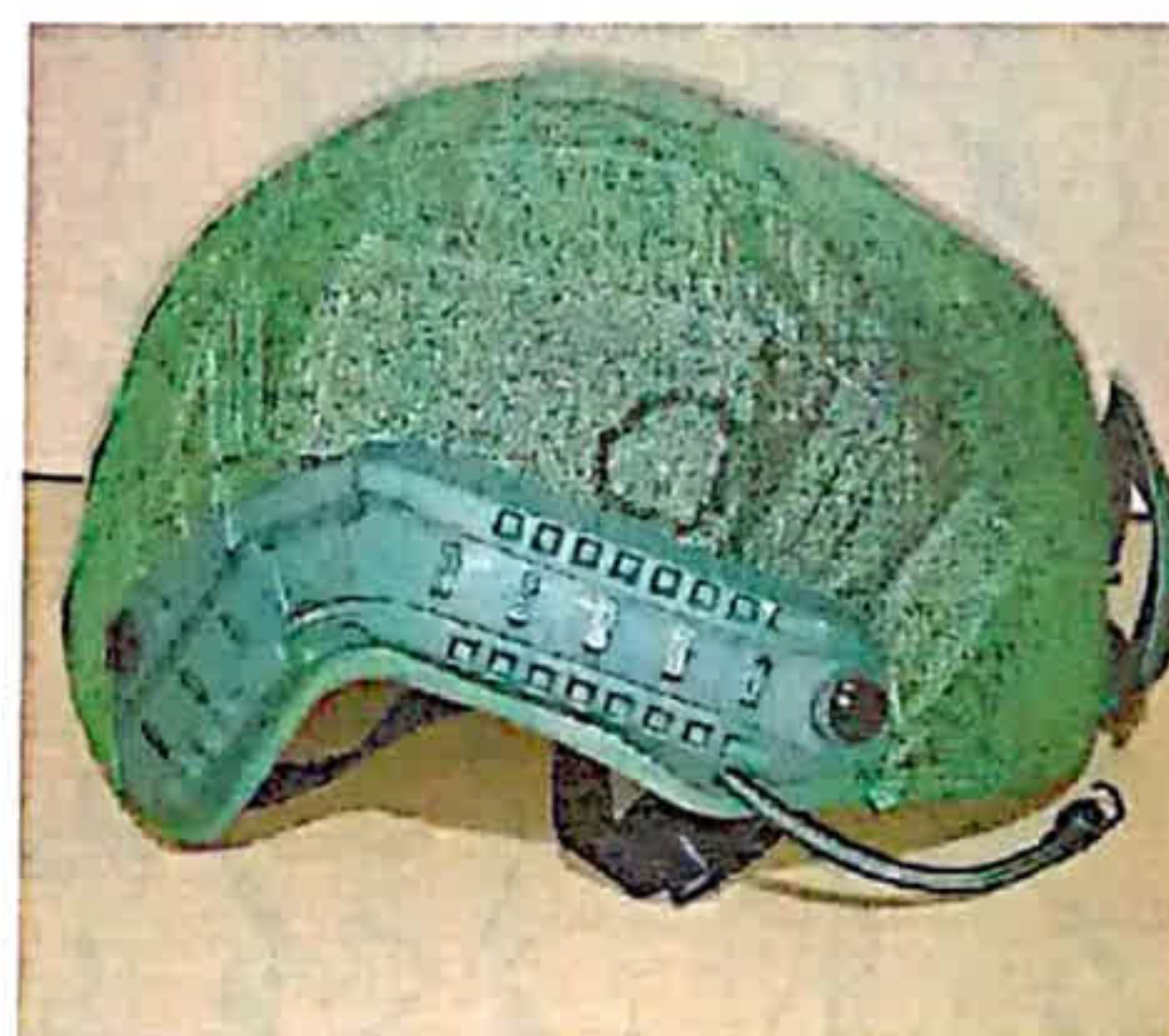
(a) front



(b) back



(c) left



(d) right



(e) crown



(f) inside

Fig. 1 Ballistic Helmet GJ0730-1 (after testing)