

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

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Cert. №: LF20210112

Sample Name	Ballistic Helmet	Test Type	Consignation Test
Client	[REDACTED]	Address	[REDACTED]
Contact Person	[REDACTED]	Phone	[REDACTED]
Date Received	01/28/2021	Date Tested	01/30/2021
Sample Amount	1	Sample No.	XX0128-3
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 [REDACTED] was tested according with NIJ 0106.01 & NIJ 0101.06 III A (.44 Mag.). Under normal temperature and humidity, no perforation occurs after 4 fair shots at different points of the sample with .44 Magnum SJHP and the maximum indentation depth is 17.3mm.</p> <p>Laboratory configuration, sample description and test results are showed from Page 2 to 4.</p>		
Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries Feb 04, 2021 			
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Laboratory Configuration	
Test Unit	Physical and Chemical Inspection Center in Non-metals Material of Ordnance Industries
Ambient Test Conditions	Temperature: 17°C; Relative Humidity: 48%.
Setup	Weapons: Ballistic Barrel Bullets: .44 Magnum SJHP Electrical chronometer (No.:6015) Caliper Gauge(No.: 11242252) Electronic Balance (No.:F40604303)
Test Range	5m
Distance from Measuring Point to Target	2m
Angle of Incidence	0°
Sample Description	
Sample No.	XX0128-3
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	
XX0128-3	8.8	1506	Normal Temperature and Humidity	
Test Results				
Shot No.	Impact Point	Velocity(m/s)	Results	Indentation Depth(mm)
1	Front	443.4	Stop	17.3
2	Back	435.3	Stop	8.6
3	Left	440.3	Stop	14.3
4	Right	433.3	Stop	7.2
	Blank			



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Attached Pictures



(a) front



(b) back



(c) left



(d) right



(e) crown



(f) inside

Fig. 1 Ballistic Helmet XX1021-1 (after testing)



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