

NATIONAL INSTITUTE OF JUSTICE HARD ARMOR COMPLIANCE TEST REPORT



Report Identification Number: OBL_CTR_TA_MC03542
Issue/Revision Number: Initial Issue
Report Date: 4/29/2022

200826-0

NVLAP Lab Code

Test Laboratory Name: Oregon Ballistic Laboratories

Address: 2873 22nd Street SE
Salem, OR 97302

Customer: Tacticon Armament

Address: 11315 Sucrise Gold Cir. Ste F
Rancho Cordove, CA 95742

Conditioning Laboratory Name: Oregon Ballistic Laboratories

Address: 2873 22nd Street SE
Salem, OR 97302

Prospective Model Designation: TA500STL

This test report and the results herein are to be used solely for the purpose of determining compliance to the NIJ 0101.06 Body Armor Standard. The test data should not be used to compare the relative performance characteristics between different models of body armor.

Reproduction of this test report is prohibited except in full.

This test report may not be used to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government.

Test results relate only to the items tested.

Authorized Signatory: Darius Nuttbrock

Function/Position: Ballistic Test Director

Signature: 

Date:

4/29/2022

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COMPLIANCE TESTING INFORMATION

Test Start Date: 04/26/22 Report Date: 04/29/22
 End Date: 04/26/22

RANGE INFORMATION:
 Range Length: 50 ft Velocity 1: 5 ft. 1.524 m Velocity Measurement Units: time
 Velocity 2: 4 ft. 1.2192 m Chronographs will report the time of flight.

ARMOR DESCRIPTION:
 Manufacturer: _____
 Date Rec'd: 08/05/20 Test ID: MC03542 NIJ Armor Type: 3
 Style: Single Curve
 Data should be entered in μ s (10^{-6} s).

SHOT-TO-EDGE REQUIREMENTS:

Threat 1: <u>2</u> Inches	Labels legible and adhered after wear tests?: <u>Yes</u> (Yes/No)
Threat 2: _____ Inches	Labels legible and adhered after conditioning protocol?: <u>Yes</u> (Yes/No)
Labels meet the requirements of 4.1.5.3	

ARMOR CONSTRUCTION:
 Armor Test Configuration: Non-Planar

<p style="text-align: center;">Plate</p> <p style="text-align: center;">Number of Layers: <u> </u></p> <p>Individual Layer Description:</p> <div style="background-color: yellow; height: 150px; width: 100%;"></div>	<p style="text-align: center;">In Conjunction With Panel (if applicable)</p> <p>Front Closure (Y/N): <u> </u></p> <p>Number of Layers: <u> </u></p> <div style="background-color: yellow; height: 150px; width: 100%;"></div>
<p>Description of Stitching:</p> <div style="background-color: yellow; height: 150px; width: 100%;"></div>	<div style="background-color: yellow; height: 150px; width: 100%;"></div>

Remarks and Revision History:

Compliance Test Report revision NIJ0101.06 - CTR Hard Armor 01-14 (2012-05-22) / MS Excel version 16.0 / Operating System version Windows (64-bit) NT 10.00

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Use this space to enter any necessary supplemental information

Samples sent to NIJ:

Tested: Sample No. 1 S/N: 0009

Un-Tested: Sample No. 9 S/N: 0008

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Test ID: MC03542
 Manufacturer: _____
 Ammunition: 7.62mm 147/FMJ

Penetration and BFS Summary Data

Report Date: 04/29/22

Test Velocity:	847.3	±9.1 m/s
	(2780)	±30 ft/s

Sample Information										
Sample Number	Soft Armor Panel		Hard Armor Plate		Gross Weight (lbs)	Shot Number	Avg. Vel. (ft/s)	Perf (Y=1/N=0)	BFS (mm)	Note
	Lot Number	Serial Number	Lot Number	Serial Number						
1			0001	0009	8.2	1	2772	0	27.36	
1			0001	0009	8.2	2	2802	0	22.56	
1			0001	0009	8.2	3	2775	0		
1			0001	0009	8.2	4	2814	0		
1			0001	0009	8.2	5	2786	0		
1			0001	0009	8.2	6	2804	0		
2			0001	0002	8.19	7	2776	0	14.28	
2			0001	0002	8.19	8	2789	0	27.54	
2			0001	0002	8.19	9	2775	0		
2			0001	0002	8.19	10	2810	0		
2			0001	0002	8.19	11	2812	0		
2			0001	0002	8.19	12	2796	0		
3			0001	0007	8.29	13	2778	0	13.34	
3			0001	0007	8.29	14	2807	0	20.74	
3			0001	0007	8.29	15	2800	0		
3			0001	0007	8.29	16	2796	0		
3			0001	0007	8.29	17	2792	0		
3			0001	0007	8.29	18	2816	0		
4			0001	0005	8.2	19	2776	0	29.1	
4			0001	0005	8.2	20	2817	0	20.89	
4			0001	0005	8.2	21	2791	0		
4			0001	0005	8.2	22	2799	0		
4			0001	0005	8.2	23	2803	0		
4			0001	0005	8.2	24	2811	0		
5						25				
5						26				
5						27				
5						28				
5						29				
5						30				

Armor Information	
Plate Subjected to hard armor conditioning	
Soft armor Panel Size (If used)	Plate Size
C-2	10 x 12
NIJ Armor Type: 3	
Shots Per Plate (Type IV only):	

Summary:	Perforations: 0	BFS Statistics:	Count: 8		
	Maximum BFS: 29.1 mm				
Pass - No BFS greater than 44 mm					

Overall P-BFS Summary

Perforations: This requirement is for all P-BFS tested samples
 0 This armor model meets the perforation performance requirements of NIJ Standard-0101.06 Section 7.8.8.

Backface Signature: This requirement is for all hard armor plate models
 Maximum BFS: 29.1 mm
 This armor model meets the BFS performance requirements of NIJ Standard-0101.06 Section 7.8.8 Item a.