

National Institute of Justice (NIJ)

Approved Test Laboratory
For Personal Body Armor

Expiration Date:
April 30, 2018

National Technical Systems

7447 W. 33rd St. N.
Wichita, KS 67205 U.S.A.
Phone (316) 832-1600 Fax (316) 832-1602

Email ustl@nts.com
www.nts.com/locations/wichita



NVLAP LAB CODE: 200818-0

Approved Signatory: Jake Crawford

FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-1
Test Date: 07/12/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 72 °F
Humidity: 44 %
Clay Block No.: 9
Clay Temp.: 99.3 °F
Drop Average: 20.30 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer: ATEK Defense Systems	1	1	0°	9mm	124 / HST HP	428.3	1167	21.92
Model No.: NPK IIIA-1	2	2	0°	9mm	124 / HST HP	425.3	1176	21.67
Serial No.: 31B76E744	3	3	0°	9mm	124 / HST HP	430.4	1162	22.34
Lot No.: 5011700220	4	4	30°	9mm	124 / HST HP	428.4	1167	No Perforation
Male / Female: Male	5	5	45°	9mm	124 / HST HP	431.9	1158	No Perforation
Size: C-5	6	6	0°	9mm	124 / HST HP	427.7	1169	No Perforation
Style: Side Opening								
Front / Back: Front								
Weight (lbs.): 4.60								
Threat Level: Special Threat								
No. of Plies: N/A								

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

Test Round Description:

Federal Premium LE, 9mm 124 gr. HST HP (P9HST1)
Test Velocity: 1150 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Nold

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-2
Test Date: 07/12/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 70 °F
Humidity: 44 %
Clay Block No.: 9
Clay Temp.: 98.8 °F
Drop Average: 20.29 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer: ATEK Defense Systems	1	1	0°	9mm	127 / SXT	388.9	1286	25.14
Model No.: NPK IIIA-1	2	2	0°	9mm	127 / SXT	398.2	1256	22.95
Serial No.: 31B76E73A	3	3	0°	9mm	127 / SXT	396.9	1260	22.21
Lot No.: 5011700220	4	4	30°	9mm	127 / SXT	398.4	1255	No Perforation
Male / Female: Male	5	5	45°	9mm	127 / SXT	392.7	1273	No Perforation
Size: C-5	6	6	0°	9mm	127 / SXT	391.9	1276	No Perforation
Style: Side Opening								
Front / Back: Front								
Weight (lbs.): 4.54								
Threat Level: Special Threat								
No. of Plies: N/A								

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

Test Round Description:

Winchester Ranger T-Series, 9mm +P+ 127 gr. SXT (RA9TA)
Test Velocity: 1250 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Nold

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-3
Test Date: 07/12/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 72 °F
Humidity: 44 %
Clay Block No.: 9
Clay Temp.: 98.5 °F
Drop Average: 19.76 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description						Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)	
Manufacturer: ATEK Defense Systems	1	1	0°	.357 Sig.	125 / GDHP	377.0	1326	24.34	
Model No.: NPK IIIA-1	2	2	0°	.357 Sig.	125 / GDHP	376.4	1328	24.81	
Serial No.: 31B76E748	3	3	0°	.357 Sig.	125 / GDHP	374.5	1335	27.49	
Lot No.: 5011700220	4	4	30°	.357 Sig.	125 / GDHP	383.8	1303	No Perforation	
Male / Female: Male	5	5	45°	.357 Sig.	125 / GDHP	381.9	1309	No Perforation	
Size: C-5	6	6	0°	.357 Sig.	125 / GDHP	378.4	1321	No Perforation	
Style: Side Opening									
Front / Back: Front									
Weight (lbs.): 4.64									
Threat Level: Special Threat									
No. of Plies: N/A									

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

Test Round Description:

Speer Gold Dot LE .357 Sig, 125 gr. GDHP (54234)
Test Velocity: 1320 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Nold

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-4
Test Date: 07/12/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 72 °F
Humidity: 44 %
Clay Block No.: 9
Clay Temp.: 97.9 °F
Drop Average: 18.72 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer: ATEK Defense Systems	1	1	0°	7.62x25mm	85 / FMJ	328.2	1523	23.28
Model No.: NPK IIIA-1	2	2	0°	7.62x25mm	85 / FMJ	328.7	1521	26.34
Serial No.: 31B76E739	3	3	0°	7.62x25mm	85 / FMJ	324.0	1543	28.55
Lot No.: 5011700220	4	4	30°	7.62x25mm	85 / FMJ	325.3	1537	No Perforation
Male / Female: Male	5	5	45°	7.62x25mm	85 / FMJ	322.5	1550	No Perforation
Size: C-5	6	6	0°	7.62x25mm	85 / FMJ	333.0	1502	No Perforation
Style: Side Opening								
Front / Back: Front								
Weight (lbs.): 4.58								
Threat Level: Special Threat								
No. of Plies: N/A								

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

Test Round Description:

Sellier & Bellot (Czech) 7.62x25mm Tokarev 85 gr. FMJ (Steel Jacket Lead Core)
Test Velocity: 1530 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Nold

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P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-5
Test Date: 07/12/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 72 °F
Humidity: 44 %
Clay Block No.: 7
Clay Temp.: 99.1 °F
Drop Average: 20.20 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4.8 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer: ATEK Defense Systems	1	1	0°	5.7x28mm	28 / SS195 LF	243.5	2053	14.61
Model No.: NPK IIIA-1	2	2	0°	5.7x28mm	28 / SS195 LF	247.0	2024	10.76
Serial No.: 31B76E764	3	3	0°	5.7x28mm	28 / SS195 LF	243.5	2053	12.26
Lot No.: 5011700220	4	4	30°	5.7x28mm	28 / SS195 LF	246.4	2029	No Perforation
Male / Female: Male	5	5	45°	5.7x28mm	28 / SS195 LF	247.2	2023	No Perforation
Size: C-5	6	6	0°	5.7x28mm	28 / SS195 LF	247.5	2020	No Perforation
Style: Side Opening								
Front / Back: Front								
Weight (lbs.): 4.61								
Threat Level: Special Threat								
No. of Plies: N/A								

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

Test Round Description:

FNH (Belgium), 5.7x28mm 28 gr. SS195 L.F. HP (P/N: 10700013)
Test Velocity: 2050 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Nold

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-6
Test Date: 07/12/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 72 °F
Humidity: 44 %
Clay Block No.: 7
Clay Temp.: 98.7 °F
Drop Average: 19.85 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer: ATEK Defense Systems	1	1	0°	40 S&W	165 / SXT	430.5	1161	25.33
Model No.: NPK IIIA-1	2	2	0°	40 S&W	165 / SXT	431.5	1159	23.29
Serial No.: 31B76E74F	3	3	0°	40 S&W	165 / SXT	430.0	1163	25.76
Lot No.: 5011700220	4	4	30°	40 S&W	165 / SXT	443.6	1127	No Perforation
Male / Female: Male	5	5	45°	40 S&W	165 / SXT	421.7	1186	No Perforation
Size: C-5	6	6	0°	40 S&W	165 / SXT	430.7	1161	No Perforation
Style: Side Opening								
Front / Back: Front								
Weight (lbs.): 4.60								
Threat Level: Special Threat								
No. of Plies: N/A								

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

Test Round Description:

Winchester Ranger T-Series, 40 S&W 165 gr. SXT (RA40TA)
Test Velocity: 1140 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Nold

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-7
Test Date: 07/13/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 72 °F
Humidity: 45 %
Clay Block No.: 9
Clay Temp.: 99.2 °F
Drop Average: 20.51 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4.8 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer: ATEK Defense Systems	1	1	0°	5.7x28mm	40 / SS197 SR	294.3	1699	18.27
Model No.: NPK IIIA-1	2	2	0°	5.7x28mm	40 / SS197 SR	292.6	1709	12.82
Serial No.: 31B76E768	3	3	0°	5.7x28mm	40 / SS197 SR	295.1	1694	19.11
Lot No.: 5011700220	4	4	30°	5.7x28mm	40 / SS197 SR	296.6	1686	No Perforation
Male / Female: Male	5	5	45°	5.7x28mm	40 / SS197 SR	288.9	1731	No Perforation
Size: C-5	6	6	0°	5.7x28mm	40 / SS197 SR	294.6	1697	No Perforation
Style: Side Opening								
Front / Back: Front								
Weight (lbs.): 4.59								
Threat Level: Special Threat								
No. of Plies: N/A								

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

Test Round Description:

FNH (USA), 5.7x28mm 40 gr. Hornady V-Max SS197 SR (P/N: 10700017)
Test Velocity: 1700 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Zerger

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FLEXIBLE ARMOR:

P-BFS TEST

Date Received: 05/25/17
Via: Hand Carry
Returned Via: UPS

Record No.: ADS17006-9
Test Date: 07/13/17
Customer: ATEK Defense Systems

Test Conditions

Temperature: 72 °F
Humidity: 44 %
Clay Block No.: 9
Clay Temp.: °F
Drop Average: 19.82 mm
Test Standard: Modified / Abbreviated NIJ 0101.06, July 2008
Threat Level: Special Threat
Condition: New / Wet

Range 2

Muzzle to Screen 1: 5.70 ft.
Screen 1 - 4: 5.00 ft.
Screen 4 - Target: 5.70 ft.
Midpoint to Target: 8.20 ft.
Target to Witness: 0 in.
Barrel Length: 4.0 in.
Clay Block: 5.5 in.

Sample Tested Description	Shot / Projectile Description					Chronograph		Test Results
	Shot No.	Shot Location	Degree Obliquity	Caliber	Bullet Weight (gr.) / Type	TIME sx-5	VELOCITY ft/s	Perforation BFS (mm)
Manufacturer: ATEK Defense Systems	1	1	0°	9x19mm	50 / LA-CD	242.1	2065	23.35
Model No.: NPK IIIA-1	2	2	0°	9x19mm	50 / LA-CD	240.3	2081	21.66
Serial No.: 054	3	3	0°	9x19mm	50 / LA-CD	245.4	2037	19.86
Lot No.: 5301700120	4	4	30°	9x19mm	50 / LA-CD	238.2	2099	No Perforation
Male / Female: Male	5	5	45°	9x19mm	50 / LA-CD	245.1	2040	No Perforation
Size: C-5	6	6	0°	9x19mm	50 / LA-CD	243.0	2058	No Perforation
Style: Side Opening								
Front / Back: Front								
Weight (lbs.): 4.57								
Threat Level: Special Threat								
No. of Plies: N/A								

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Test Remarks/Notes:

•Panel tested in cover and outer carrier

2063

Test Round Description:

Liberty Ammunition, 9x19mm 50 gr. LA-CD
Test Velocity: 2050 +/- 30 ft/s

Sample Description:

•Customer Proprietary

Project Manager: Nguyen
Range Tech(s): Zerger