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Safe-Pro USA EOD SUIT



SAFE PRO GROUP
Safety with Confidence

ADVANCED EOD SUIT

Safe-Pro USA LLC

Miami, FL

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Safe-Pro USA EOD SUIT

1. Name of Company, Address

Name of Company: Safe-Pro USA LLC

Corporate: 18305 Biscayne Boulevard Suite 222, Aventura FL 33160

Manufacturing: 1650 W 33rd PL, Hialeah, FL 33012

Name of Point of Contact, Email Address, Phone Number

Point of Contact:

Dan Erdberg, Chairman and CEO

DanErdberg@SafeProUSA.net

+1.786-409-4030

Pravin Borkar, CTO

Pravin@SafeProUSA.net

+1.954.494.5768

2. Corporate Information

Safe-Pro USA LLC's Technical Team has over 80 years of combined technical and manufacturing expertise in the production of EOD/UXO Demining equipment, body armor vests and hard armor plates, Level III, III+, IV, XSAPI, ESAPI. Safe-Pro has been providing EOD/UXO demining equipment in support of the United Nations Peacekeeping effort for nearly a decade in cooperation with the Bangladesh Ministry of Defense.

Safe-Pro USA LLC was founded in the Year 2008 for the purpose of offering advanced design, engineering and manufacture of EOD/UXO demining equipment and bullet and blast resistant personal protection equipment with the highest margin of safety in the industry. Safe-Pro USA LLC has capabilities for the design, engineering and manufacturing of bullet and blast resistant products for use as personal body armor as well as armor for vehicles on land, water, air (Fixed and Rotary Wing aircraft) and Building Structures. The Founding Members along with the members of the Safe-Pro Team possess more than 80 years of extensive combined demonstrated prior experience in the design, engineering and manufacturing in hundreds of projects some prior and recent examples are:

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- a. Designed, engineered and manufactured more than 500,000 ESAPI plates for the U.S. Army and received the highest Quality Rating maintained by the Army.
- b. Design, engineering and manufacturing of a multitude of Blast Resistant and Blast containment products in support of the United Nations Peacekeeping Forces: EOD suit compliant to fragmentation Standards MIL-STD-662F and NATO STANAG 2920, bomb containment bin, blast mitigation blanket, EOD helmet and visor, Demining suit and demining apron.
- c. Award winning work executed in the design, engineering and manufacturing of Ballistic Protection systems for transport and passenger helicopters with the U.S. Army, Marines and Airforce. The total number of military transport helicopters include more than 900 armor systems for HH-60, MH-60 and CH-60, CH-47, MH-47, CH-53 and MH-53 versions. Recipient of “Supplier of the Year” sponsored by the U.S. Marines and awarded by the American Helicopter Society.
- d. Design, engineering and manufacturing of over 23,000 ballistic protection blankets for U.S. military vehicles in Bosnia and Iraq. The vehicles included HMMWVs, M939, M35A2, PLS, Medevacs and others.
- e. Safe-Pro designed, engineered and manufactured over 24,000 bullet resistant vests and plates compliant to the NIJ Standard 0101.06 Level III++++for the Brazilian Police and Special Forces. This ceramic plate is certified to NIJ 0101.06 Level III Stand Alone and additionally defeats multiple shots of the following projectiles:
 1. 7.62 x 39 MSC
 1. 7.62 x 39 Ball
 2. 5.56 x 45 M855
 3. 5.56 x 45 M193
 4. 7.62 x 54R LPS
 5. .338 Lapua Magnum 250 grain.
 6. 7.62 x 63 APM2 ICW NIJ Level IIIA vest.

3. Special Manufacturing Capability

- a. Safe-Pro USA LLC has scalable sewn products manufacturing space starting from 8,000 sft. and scalable to 20,000 sft. or more and equipped with state-of-the-art sewing machines including multiple ultrasonic sealing machines which are necessary to apply the peripheral edge seal to ballistic inserts for vests in order to make them impervious from the ingress of any moisture or water.

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- b. Safe-Pro USA maintains a roster of a large number (over 100) seamstresses and personnel with expertise in the operation of Sonobond ultrasonic sealing machines. These personnel can be utilized for producing large volumes of ballistic inserts as required for the contract resulting from the upcoming solicitation for ballistic vest inserts.
- c. Safe-Pro USA LLC regularly conducts a large number of ballistic tests for R&D, product verification, and Production Lot Testing on the multitude of its products at the NTS Labs. Thus Safe-Pro USA has excellent access to ballistic testing facility for testing new ballistic solutions and also for Lot verification of existing ballistic solutions.
- d. Safe-Pro USA LLC has readily available access to CAD/ CAM fabric marking and cutting services. The nylon ripstop encapsulation fabric for the vest ballistic inserts, and the aramid and UHMWPE materials will be precisely and consistently cut on
- e. Gerber CAD/CAM cutting machines. The high production capacity of this machine will also ensure that the required production volumes of the ballistic insert fabrics are achieved.

4. PRODUCT ADVANCED EOD SUIT– MODEL SP-EOD-10A

5. DELIVERY SCHEDULE

- a. DEC 2022 – 35 UNITS**
- b. FEB 2023 – 100 UNITS**
- c. APRIL 2023 – 150 UNITS**
- d. JUNE 2023 – 215 UNITS**

6. RECENT EOD DELIVERY AND TRAINING

September 2022, Delivery and Training of EOD/UXO Demining Equipment to the Bangladesh Ministry of Defense in Support of the Peacekeeping Forces of the United Nations

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Safe-Pro USA EOD SUIT

7. TEST REPORTS

Reports include ballistic testing for each component utilized in all Safe-Pro EOD Demining Suits and ensembles



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EXPLOSIVE ORDNANCE DISPOSAL SUIT

EXPLOSIVE ORDNANCE DISPOSAL SUIT

Model: SP-EOD-10A

FRONT



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EXPLOSIVE ORDNANCE DISPOSAL SUIT

Model: SP-EOD-10A

EOD JACKET



EOD PANTS



COMPLETE EOD HELMET

EOD Helmet with Visor, Integral Communications System

Forced Air Ventilation Fan

Visor Latch (rubber T-latch)

Adjustable Rotating Light

Visor

Connection to battery (12V and 10 mAh)

Earphones (2) and Microphones



EOD Helmet Inner View

Adjustable Chinstrap with Chin Cup

Nomex Liner

Bone Conductor Wireless Communication System



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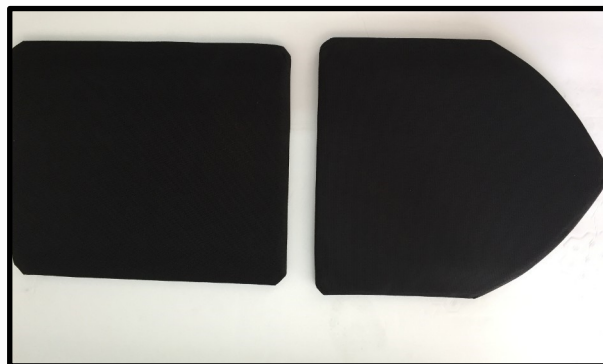
EXPLOSIVE ORDNANCE DISPOSAL SUIT

Model: SP-EOD-10A

EOD Jacket Components



Air Blower Fan for Jacket



Chest (left) and Groin (right) Plates



Radio and Accessories



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FULL BODY COOLING SUIT



Model SP-CSF1-08

Coverage: Head, Upper and Lower Torso.

Material of Construction: Comfort Flame retardant, breathable, stretchable knit cotton fabric.

Cooling System: The head (Balaclava), jacket and pants are cooled by recirculating water through conductive tubing sewn into the body of the fabric Head, Jacket and the Pants.

Sizes: Small/Medium, Large/X-Large

Cooling Water Recirculation System: The system for cooling water recirculation consists of a water bottle containing ice cold water which is driven by an integral water pump located inside the cooling water bottle.

Battery Power: The cooling water pump is powered by a 12V 10mAh Lithium-Ion battery which is stored within an external pocket strapped to the user's thigh.

Cooling Water Flow Rate: The cold water circulation rate is 3 liters per minute.

Cooling Water Storage Bottles: Two bottles of 1-gallon capacity each are supplied with each suit.



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EXPLOSIVE ORDINANCE DISPOSAL SUIT

Model: SP-EOD-10A



Inclusions in the EOD Suit Ensemble Package

- EOD Suit—Jacket and Pants in a Carry bag
- EOD Helmet and Visor in a Carry Bag
- Chest and Groin Plate
- Back/Spine Protector (Integral)
- Integral Groin Protector
- Overshoes protection
- Static dissipation bands on each foot
- Hand Mitts
- Helmet Light
- Quick doffing Pull Strap
- Bone conduction ear phones and microphone for radio communication system for EOD Technician and headset earphones and microphone communication system for the Control/Command Center
- One Pair of Motorola Radios
- Remote control mounted on right wrist for controlling Helmet ventilation Fan and cooling suit pump
- Cooling Suit consisting of head, jacket and pants with cooling water pipes, water bottle and pump for cooling water circulation
- Battery pack, Lithium Ion 10 mAh
- Provision for optional augmented protection on thighs and shins if required
- Optional air blower fan for cooling the jacket

Total Weight of Suit: Approximately 55 lbs.

Fragmentation and Blast Protection

The V50 velocities after testing with 17 grain FSP, as per MIL-STD-662F and STANAG 2920, for fragmentation resistance are provided below:

- Suit Front Chest and Groin Areas: 1500 m/s minimum
- Helmet (Front and Back): 700 m/s minimum
- Visor: 700 m/s minimum
- Leg: Thigh, Knee, Shin: 600 m/s minimum
- Arm/Sleeve: 600 m/s minimum
- Back of Suit: 600 m/s minimum
- Total Weight of Suit: Approximately 55 lbs.

The suit is customizable and can be upgraded to the end user's torso, jacket, and pants measurement

The suit can also be upgraded to meet the fragmentation V50 velocities in different areas of the suit, as per the specific requirement of the end user



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23 February 2022

Safe Pro USA LLC
9384 SW 1st Place
Coral Springs, FL 33071 US

Attention: Mr. Pravin Borkar

Subject: Safe Pro USA LLC, Armor Protection Ballistic Limit Test, V₅₀ BL(P):
Project No. PR154130, Tested 14 through 15 February 2022,
Purchase Order No. SP-122221-01

Dear Mr. Borkar

Please find enclosed a report documenting the subject test series conducted by NTS-Chesapeake Testing on 14 through 15 February 2022. This report includes a summary of the test as well as a detailed record for each armor sample tested.

If you have any questions related to this test, please call Mr. Craig Thomas at 410-297-8154 or contact him via e-mail at craig.thomas@nts.com.

Sincerely,

A handwritten signature in black ink, appearing to read "CS", with a long horizontal flourish extending to the right.

Chris Schueler
General Manager, NTS-Chesapeake Testing

bw

Enc: a/s

NTS-Chesapeake Testing is an independent testing facility and has no affiliation with Safe Pro USA LLC.

1 of 25

SAFE PRO USA LLC PROPRIETARY INFORMATION

4603B Compass Point Rd., Belcamp, MD 21017

v: 410.297.8154

f: 410.297.8160



National Technical Systems Test Report for Ballistic Limit Testing, V₅₀ BL(P)

Prepared For

Safe Pro USA LLC | 9384 SW 1st Place | Coral Springs, FL 33071 US

Prepared By

National Technical Systems | 4603B Compass Point Road | Belcamp, MD 21017 | (410) 297-8154 | www.nts.com

A handwritten signature in blue ink, appearing to read "Beth A. Workman", written over a horizontal line.

Beth A. Workman
Technical Writer

A handwritten signature in blue ink, appearing to read "Craig A. Thomas", written over a horizontal line.

Craig Thomas
Project Manager

A handwritten signature in blue ink, appearing to read "Matt Rixham", written over a horizontal line.

Matthew Rixham
Quality Assurance

Further dissemination only as directed by Safe Pro USA LLC, 23 February 2022.

This report and the information contained herein represent the results of testing articles/products identified and selected by the client. The tests were performed to specifications and/or procedures approved by the client. National Technical Systems (NTS) makes no representations expressed or implied that such testing fully demonstrates efficiency, performance, reliability, or any other characteristic of the articles being tested, or similar products. This report should not be relied upon as an endorsement or certification by NTS of the equipment tested, nor does it represent any statement whatsoever as to its merchantability or fitness of the test article or similar products for a particular purpose. This document shall not be reproduced except in full without written approval from NTS.

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NTS-Chesapeake Testing is an independent testing facility and has no affiliation with Safe Pro USA LLC.



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1 Introduction

Safe Pro USA LLC provided ten armor samples to NTS-Chesapeake Testing for ballistic limit, V_{50} testing on 14 through 15 February 2022.

2 Threats and Instrumentation

2.1 Threats*

- .22-cal., 17-grain fragment simulating projectiles (FSP)

*All projectiles were fired from a universal receiver which was fitted with the appropriate barrel and mounted on an NTS-Chesapeake Testing mount.

*The threat projectiles were required to have no greater than 5° total yaw. Projectile yaw was measured to ensure that the test impacts were within this constraint by placing a yaw card at the appropriate gun-to-target range during velocity verification shots.

2.2 Instrumentation

Projectile velocity measurements were obtained using Oehler Research model No. 57 infrared screens with Y.I.S. Cowden Group Chrono-USB chronographs. The calibration data is presented in Attachment A.

3 Details of Test

The objective of this test was to conduct a ballistic limit, V_{50} test on the armor samples in accordance with STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016 for Project No. PR154130-1 through -7, and STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016 and the customer's request for Project No. PR154130-8 through -10. Shot spacing between multiple impacts on a single sample was in accordance with the referenced performance standard. Shots against the armor samples were performed at 0.0° obliquity and ambient range temperature (20 ± 1 °C).

For each shot, the target was clamped to a rigid test fixture. A piece of 0.508 mm thick (0.020 in) type 2024 T3 aluminum was mounted along the shotline, approximately $152 \text{ mm} \pm 13 \text{ mm}$ (6 in ± 0.5 in) behind the inside surface of the strike face, to verify complete penetrations. A complete penetration was scored only when the witness material was perforated (i.e., light was visible through the material). All firings were conducted at 4.572 m from the target. The projectile velocities used for the test were in accordance with the referenced performance standard. Velocities for subsequent shots were based on the result of the previous shot. The required ballistic limit (BL(P)) for each sample is displayed in Table 1.

4 Summary of Results

The results of the V_{50} ballistic limit testing are summarized in Table 1. The round-by-round data sheets and scatter plots for all testing performed are provided on the following pages.

The following is a list of abbreviations used in the data sheets:

C	=	Complete penetration (same as CP).
Gap	=	For V_{50} data, the difference in velocities between the highest partial penetration and the lowest complete penetration when the complete penetration occurs at a higher velocity than the partial penetration.
HP	=	For V_{50} data, the highest velocity at which a partial penetration occurred.
LC	=	For V_{50} data, the lowest velocity at which a complete penetration occurred.
P	=	Partial penetration (same as PP).
ROR	=	Range of results; for V_{50} data, the difference between the highest and lowest velocities.
V_{50}	=	Statistical velocity at which the threat defeats the armor 50% of the time.
RMR	=	Range of mixed results; for V_{500} data, the difference in velocities between the highest partial penetration and the lowest complete penetration when the partial penetration occurs at a higher velocity than the complete penetration.
Yes	=	Round was used in calculating a V_{50} or an approximate V_{50} .
No	=	Round was not used in calculating a V_{50} or an approximate V_{50} .

Table 1. Summary of V₅₀ Ballistic Limit Test Results

Project No.	Sample No.	Size (mm)	Weight (kg)	Threat	Required Ballistic Limit (BL(P)) (m/s)	Target Obliq. (deg)	Ballistic Limit Data				
							V ₅₀ (m/s)	No. of Points	RMR (m/s)	GAP (m/s)	ROR (m/s)
PR154130-1	274-01SPBT-215 - Arm	To Fit Man Height 5'9'' to 6'2''	1.200	.22-cal., 17-grain FSP	645	0.0	661.7	6	27.74	NA	38.1
PR154130-2	Leg Protector - 274-02SPBT	To Fit Man Height 5'9'' to 6'2''	0.650	.22-cal., 17-grain FSP	645	0.0	688.8	6	2.44	NA	29.87
PR154130-3	Neck Protector	To Fit Man Height 5'9'' to 6'2''	1.030	.22-cal., 17-grain FSP	900	0.0	803.1 ^{a,c}	2	19.81	NA	19.81
PR154130-4	SP-274-03 - Helmet	To Fit Man Height 5'9'' to 6'2''	3.220	.22-cal., 17-grain FSP	775	0.0	939.7	6	NA	2.44	24.99
PR154130-5	274-16LSPBT	To Fit Man Height 5'9'' to 6'2''	1.530	.22-cal., 17-grain FSP	775	0.0	962.9 ^{a,c}	2	NA	46.02	46.02
PR154130-6	274-06SBPT – Hand Cover	241.300 x 190.500	0.230	.22-cal., 17-grain FSP	600	0.0	601.4 ^{a,b}	2	17.98	NA	17.98
PR154130-7	274-13LSPBT – Boot Cover	To Fit Man Height 5'9'' to 6'2''	0.370	.22-cal., 17-grain FSP	620	0.0	662.6 ^{a,b}	4	NA	NA	28.04
PR154130-8	Chest Protector.	To Fit Man Height 5'9'' to 6'2''	7.090	.22-cal., 17-grain FSP	999.7	0.0	NA ^d	NA	NA	NA	NA
PR154130-9	274-05SPBT – Groin Protector	To Fit Man Height 5'9'' to 6'2''	7.180	.22-cal., 17-grain FSP	1100	0.0	NA ^d	NA	NA	NA	NA
PR154130-10	Suit + Plate	To Fit Man Height 5'9'' to 6'2''	7.090	.22-cal., 17-grain FSP	780	0.0	NA ^d	NA	NA	NA	NA

^a Approximate V₅₀.

^b Testing terminated due to limited space on test sample.

^c Testing Terminated per Customer Request.

^d Testing Terminated per Customer Request, no V₅₀ obtained.

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc

Project No.: PR154130-1

Test Date: 02/15/2022

Page 1 of 2

Test Panel Description: Arm, soft Armor. Arm Protector. Lot: SP-08-2021. Model: SP-BGA-08. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC

Sample No.: 274-01SPBT-215 - Arm

Size: To Fit Man Height
5'9" to 6'2"
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 1.200 kg
Plies/Laminates: N/A
Required BL(P): 645 m/s

Date Received: 02/11/2022
Received FEDEX Ground
Via:
Returned Via: FEDEX Ground

Setup

Shot Spacing: STANAG 2920 Ed 3
AEP 2920 Edition
A, Version 2
Witness Panel: 0.02 in 2024-T3
Aluminum
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (m): 1.520, 1.630,
2.950, 3.050
Primary Vel. Location (m): 2.288
Range to Target (m): 4.572
Target to Witness (mm): 152.400

Range No.: Range 4
Temp: 20.2 °C
BP: 30.2 inHg
RH: 32.5 %
Barrel/Gun: CT-2009
Gunner: Bernard Carr
Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel. 2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	9.3	17.0	2140	712.0	1854	712.3	712.3	681.8	C	No	0.0	
2	1	8.6	17.0	2198	693.4	1906	692.8	693.1	663.5	C	Yes	0.0	
3	1	8.0	17.0	2296	663.9	1989	663.9	663.9	635.5	P	No	0.0	
4	1	8.3	17.0	2279	668.7	1974	669.0	668.7	640.4	P	Yes	0.0	
5	1	8.7	17.0	2152	708.1	1862	709.3	708.7	678.5	P	Yes	0.0	
6	1	9.2	17.0	2125	717.2	1840	717.8	717.5	686.7	C	No	0.0	
7	1	8.6	17.0	2242	679.7	1942	680.0	680.0	650.7	C	Yes	0.0	
8	1	8.6	17.0	2196	694.0	1903	694.0	694.0	664.5	P	Yes	0.0	
9	1	8.8	17.0	2169	702.6	1879	702.9	702.9	672.7	C	Yes	0.0	

Remarks:

Required Starting Velocity: 634.9 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:

N/A

V₅₀ Summary:

No. of Points: 3 and 3
V₅₀: 661.7 m/s
High Partial: 678.5 m/s
Low Complete: 650.7 m/s
Range of Results (ROR): 38.1 m/s
Range of Mix Results (RMR): 27.74 m/s
Gap: N/A

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

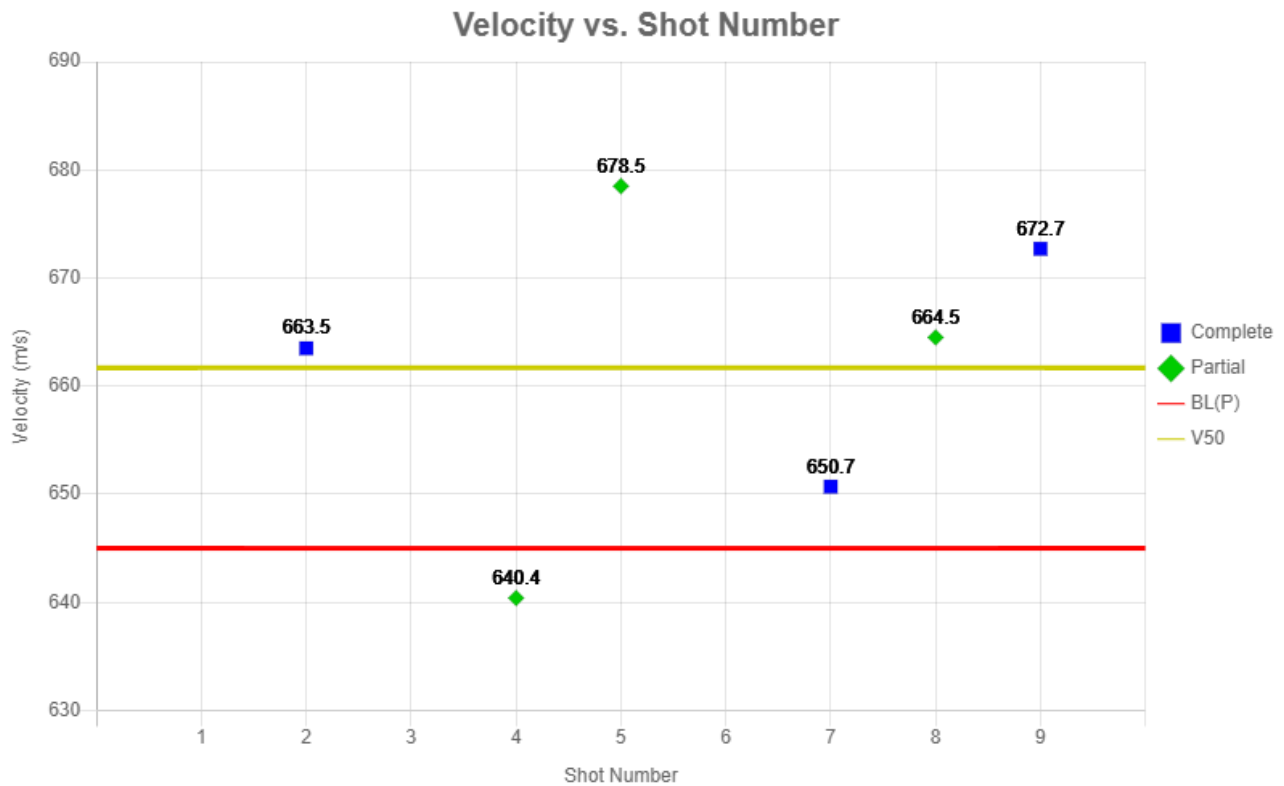
Client: Safe Pro Usa Llc
Job No.: PR154130-1
Test Date: 02/14/2022 - 02/15/2022
Page 2 of 2

Manufacturer: Safe Pro USA LLC

Sample No.: 274-01SPBT-215 - Arm

V₅₀ Summary:

No. of Points: 3 and 3
V₅₀: 661.7 m/s
High Partial: 678.5 m/s
Low Complete: 650.7 m/s
Range of Results (ROR): 38.1 m/s
Range of Mix Results (RMR): 27.74 m/s
Gap: N/A



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-2
Test Date: 02/14/2022 - 02/15/2022
Page 1 of 2

Test Panel Description: Leg Protector, hard armor plate backed with soft armor vest. Leg Protector. Lot: SP-08-2021.
Model: SP-BGA-08. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC

Sample No.: Leg Protector - 274-02SPBT

Size: To Fit Man Height
5'9" to 6'2"
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 0.650 kg
Plies/Laminates: N/A
Required BL(P): 645 m/s

Date Received: 02/11/2022
Received UPS Ground
Via:
Returned Via: UPS Ground

Setup

Shot Spacing: STANAG 2920 Ed 3
AEP 2920 Edition
A, Version 2
Witness Panel: 0.02 in 2024-T3
Aluminum
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (m): 1.520, 1.630,
2.950, 3.050
Primary Vel. Location (m): 2.288
Range to Target (m): 4.572
Target to Witness (mm): 152.400

Range No.: Range 4
Temp: 20.3 °C
BP: 30.2 inHg
RH: 34.6 %
Barrel/Gun: CT-2009
Gunner: Bernard Carr
Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel.2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	9.7	17.0	2042	746.5	1769	746.5	746.5	714.5	C	No	0.0	
2	1	9.4	17.0	2072	735.5	1796	735.5	735.5	704.1	C	Yes	0.0	
3	1	9.2	17.0	2067	737.3	1791	737.3	737.3	705.9	C	No	0.0	
4	1	8.7	17.0	2201	692.5	1903	694.0	693.1	663.5	P	No	0.0	
5	1	8.9	17.0	2164	704.4	1874	704.7	704.4	674.2	P	Yes	0.0	
6	1	9.1	17.0	2113	721.2	1830	721.8	721.5	690.7	P	Yes	0.0	
7	1	9.3	17.0	2086	730.6	1808	730.6	730.6	699.2	C	Yes	0.0	
8	1	9.1	17.0	2120	718.7	1837	719.0	719.0	688.2	C	Yes	0.0	
9	1	8.9	17.0	2157	706.5	1866	707.7	707.1	677.0	P	Yes	0.0	

Remarks:
Required Starting Velocity: 685.2 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:
N/A

V₅₀ Summary:
No. of Points: 3 and 3
V₅₀: 688.8 m/s
High Partial: 690.7 m/s
Low Complete: 688.2 m/s
Range of Results (ROR): 29.87 m/s
Range of Mix Results (RMR): 2.44 m/s
Gap: N/A

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Job No.: PR154130-2
Test Date: 02/15/2022
Page 2 of 2

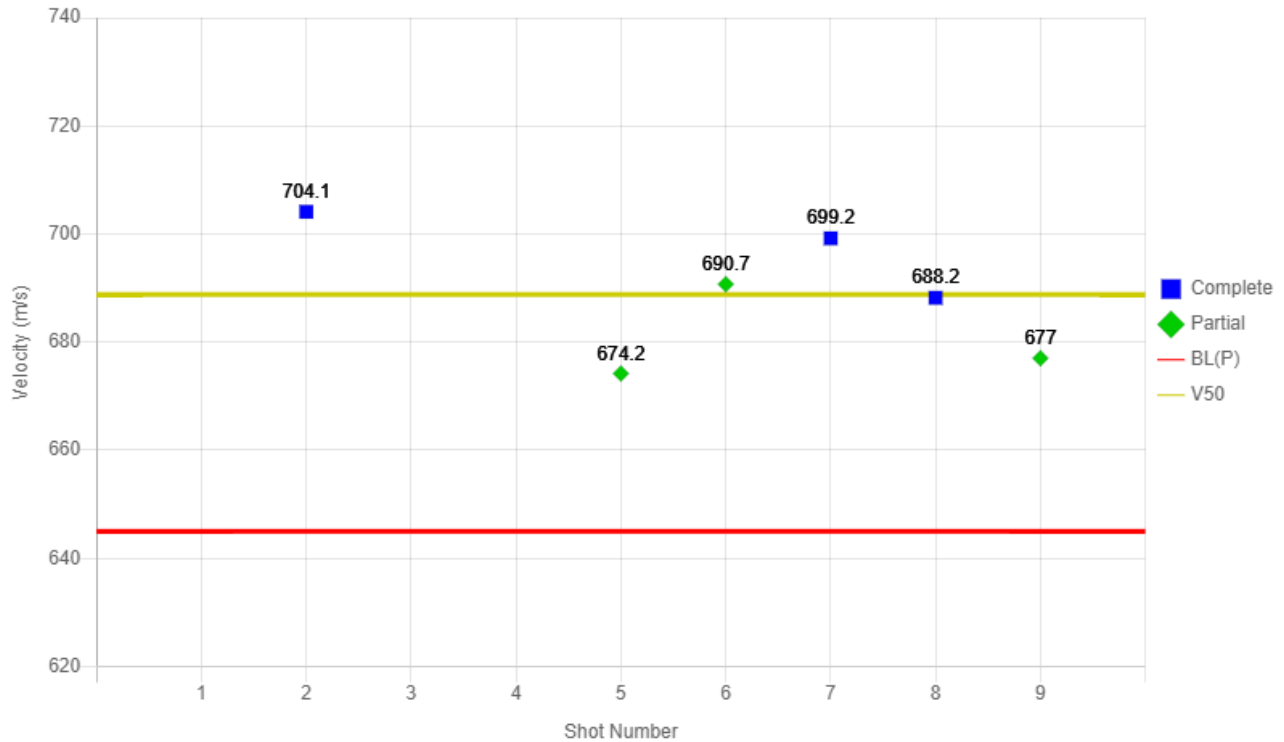
Manufacturer: Safe Pro USA LLC

Sample No.: Leg Protector - 274-02SPBT

V₅₀ Summary:

No. of Points: 3 and 3
V₅₀: 688.8 m/s
High Partial: 690.7 m/s
Low Complete: 688.2 m/s
Range of Results (ROR): 29.87 m/s
Range of Mix Results (RMR): 2.44 m/s
Gap: N/A

Velocity vs. Shot Number



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-3
Test Date: 02/14/2022 - 02/15/2022
Page 1 of 2

Test Panel Description: Neck Protector, three-piece soft armor sample. Neck Protector. Lot: SP-08-2021. Model: SP-BGA-08. Contract: 218-274-19.

Manufacturer: Safe Pro USA LLC **Sample No.:** Neck Protector

Size: To Fit Man Height 5'9" to 6'2" Avg. Thickness: N/A Thicknesses: N/A	Weight: 1.030 kg Plies/Laminates: N/A Required BL(P): 900 m/s	Date Received: 02/11/2022 Received UPS Ground Via: Returned Via: UPS Ground
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Setup

Shot Spacing: STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (m): 1.520, 1.630, 2.950, 3.050 Primary Vel. Location (m): 2.288 Range to Target (m): 4.572 Target to Witness (mm): 152.400	Range No.: Range 4 Temp: 20.3 °C BP: 30.2 inHg RH: 33.2 % Barrel/Gun: CT-2009 Gunner: Bernard Carr Recorder: Joshua Petty
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Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel.2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	9.2	17.0	2086	730.6	1810	729.7	730.0	698.9	P	No	0.0	
2	1	10.7	17.0	1906	799.5	1652	799.5	799.5	765.4	P	No	0.0	
3	1	13.0	17.0	1715	888.5	1488	887.6	888.2	850.7	C	No	0.0	
4	1	11.5	17.0	1840	828.1	1595	828.1	828.1	793.1	C	Yes	0.0	
5	1	11.0	17.0	1879	811.1	1627	811.7	811.4	776.9	P	No	0.0	
6	1	11.5	17.0	1837	829.7	1593	829.1	829.4	794.3	P	No	0.0	
7	1	11.8	17.0	1803	845.2	1561	846.1	845.5	809.9	P	No	0.0	
8	1	12.1	17.0	1796	848.6	1556	848.9	848.6	812.9	P	Yes	0.0	
9	1	12.5	17.0	1749	871.4	1512	873.6	872.3	835.8	C	No	0.0	(a)

Remarks:
Required Starting Velocity: 670.0 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:
(a) Testing terminated per customer request

V₅₀ Summary:
No. of Points: 1 by 1
V₅₀: 803.1 m/s
High Partial: 812.9 m/s
Low Complete: 793.1 m/s
Range of Results (ROR): 19.81 m/s
Range of Mix Results (RMR): 19.81 m/s
Gap: N/A

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc

Job No.: PR154130-3

Test Date: 02/14/2022 - 02/15/2022

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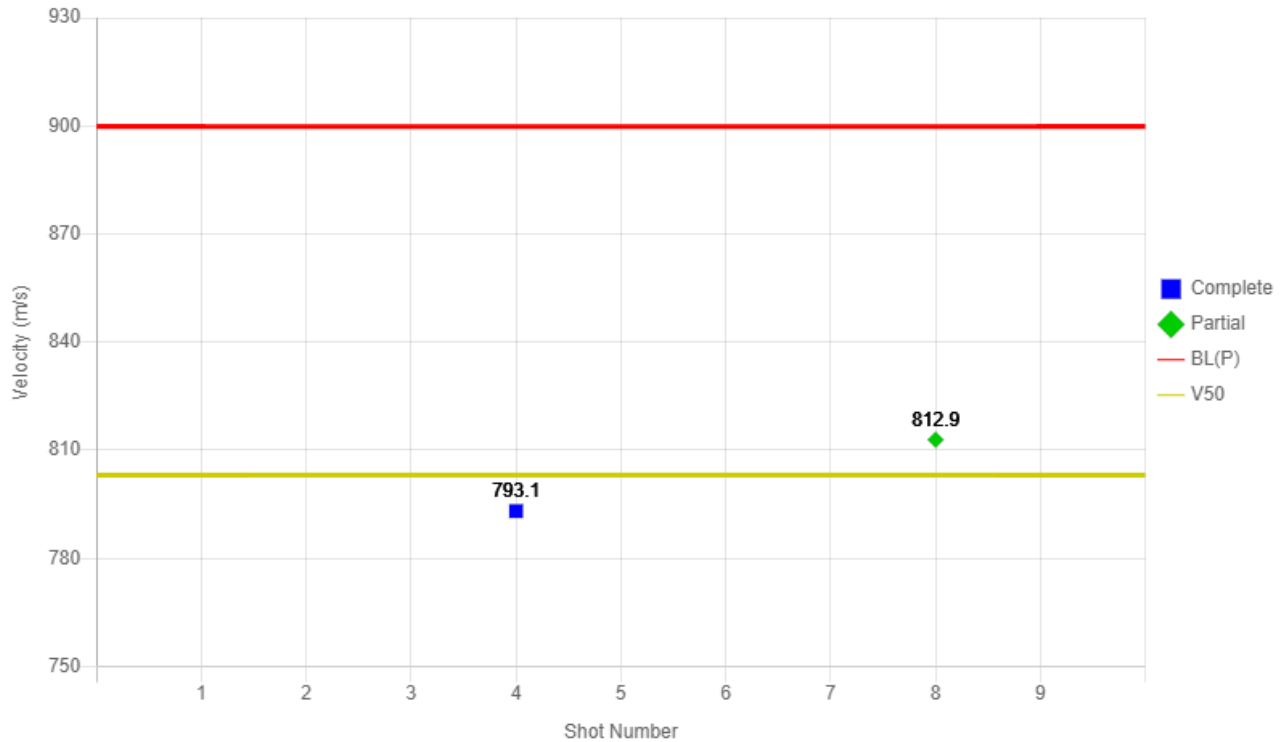
Manufacturer: Safe Pro USA LLC

Sample No.: Neck Protector

V₅₀ Summary:

No. of Points: 1 by 1
V₅₀: 803.1 m/s
High Partial: 812.9 m/s
Low Complete: 793.1 m/s
Range of Results (ROR): 19.81 m/s
Range of Mix Results (RMR): 19.81 m/s
Gap: N/A

Velocity vs. Shot Number



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing
4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-4
Test Date: 02/15/2022
Page 1 of 2

Test Panel Description: Helmet. Lot: SP-02-2021. Model: SP-EOD-17. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC

Sample No.: SP-274-03 - Helmet

Size: To Fit Man Height
5'9" to 6'2"
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 3.220 kg
Plies/Laminates: N/A
Required BL(P): 775 m/s

Date Received: 02/11/2022
Received FEDEX Ground
Via:
Returned Via: FEDEX Ground

Setup

Shot Spacing: STANAG 2920 Ed 3
AEP 2920 Edition
A, Version 2
Witness Panel: 0.02 in 2024-T3
Aluminum
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (m): 1.520, 1.630,
2.950, 3.050
Primary Vel. Location (m): 2.288
Range to Target (m): 4.572
Target to Witness (mm): 152.400

Range No.: Range 3
Temp: 20.1 °C
BP: 30.6 inHg
RH: 36.8 %
Barrel/Gun: WC020651
Gunner: William Ellis
Recorder: Ramon Chavez

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel.2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	9.0	17.0	1554	980.8	1349	979.0	979.9	939.4	P	Yes	0.0	
2	1	9.4	17.0	1540	989.7	1336	988.5	989.1	948.2	C	Yes	0.0	
3	1	9.2	17.0	1535	992.7	1332	991.5	992.1	951.3	C	Yes	0.0	
4	1	9.0	17.0	1552	982.1	1344	982.7	982.4	941.8	C	Yes	0.0	
5	1	8.8	17.0	1578	965.9	1366	966.8	966.2	926.3	P	Yes	0.0	
6	1	9.0	17.0	1569	971.4	1359	971.7	971.7	931.2	P	Yes	0.0	

Remarks:
Required Starting Velocity: 914.4 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:
N/A

V₅₀ Summary:
No. of Points: 3 and 3
V₅₀: 939.7 m/s
High Partial: 939.4 m/s
Low Complete: 941.8 m/s
Range of Results (ROR): 24.99 m/s
Range of Mix Results (RMR): N/A
Gap: 2.44 m/s

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Job No.: PR154130-4
Test Date: 02/15/2022
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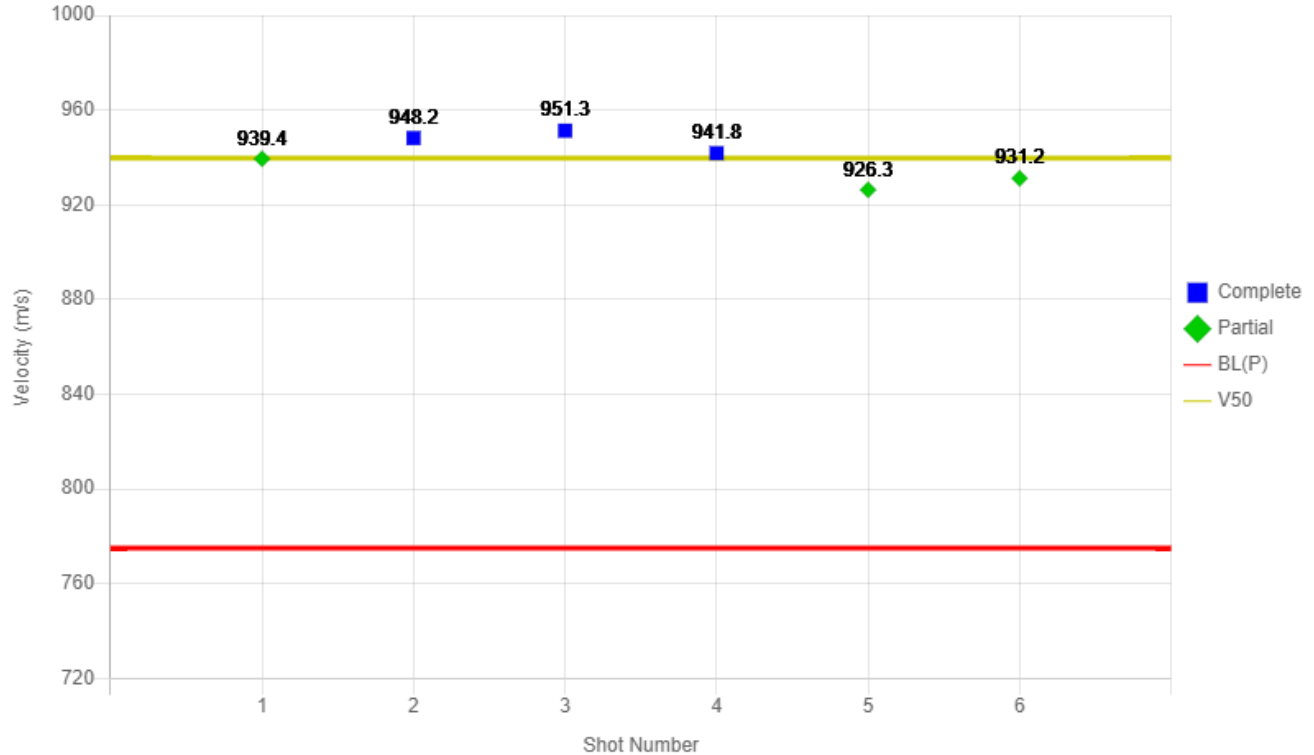
Manufacturer: Safe Pro USA LLC

Sample No.: SP-274-03 - Helmet

V₅₀ Summary:

No. of Points: 3 and 3
V₅₀: 939.7 m/s
High Partial: 939.4 m/s
Low Complete: 941.8 m/s
Range of Results (ROR): 24.99 m/s
Range of Mix Results (RMR): N/A
Gap: 2.44 m/s

Velocity vs. Shot Number



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-5
Test Date: 02/14/2022 - 02/15/2022
Page 1 of 2

Test Panel Description: Helmet Visor. Model: SP-BGA-08. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC

Sample No.: 274-16LSPBT

Size: To Fit Man Height
5'9" to 6'2"
Avg. Thickness: 33.071 mm
Thicknesses: 30.886 mm, 33.376 mm, 34.442 mm, 33.579 mm

Weight: 1.530 kg
Plies/Laminates: N/A
Required BL(P): 775 m/s

Date Received: 02/11/2022
Received UPS Ground
Via:
Returned Via: UPS Ground

Setup

Shot Spacing: STANAG 2920 Ed 3
AEP 2920 Edition
A, Version 2
Witness Panel: 0.02 in 2024-T3
Aluminum
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (m): 1.520, 1.630,
2.950, 3.050
Primary Vel. Location (m): 2.288
Range to Target (m): 4.572
Target to Witness (mm): 152.400

Range No.: Range 4
Temp: 20.2 °C
BP: 30.2 inHg
RH: 33.6 %
Barrel/Gun: N/A
Gunner: Bernard Carr
Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel.2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	12.0	17.0	1788	852.2	1549	852.5	852.5	816.6	P	No	0.0	
2	1	13.0	17.0	1718	887.0	1488	887.6	887.3	850.1	P	No	0.0	
3	1	14.0	17.0	1642	928.1	1422	928.7	928.4	889.7	P	No	0.0	
4	1	15.5	17.0	1556	979.3	1346	981.2	980.2	939.7	P	Yes	0.0	
5	1	17.5	17.0	1483	1027.8	1285	1027.8	1027.8	985.7	C	Yes	0.0	(a)

Remarks:

Required Starting Velocity: 820.2 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:

(a) Testing terminated per customer request

V₅₀ Summary:

No. of Points: 1 and 1
V₅₀: 962.9 m/s
High Partial: 939.7 m/s
Low Complete: 985.7 m/s
Range of Results (ROR): 46.02 m/s
Range of Mix Results (RMR): N/A
Gap: 46.02 m/s

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc

Job No.: PR154130-5

Test Date: 02/14/2022 - 02/15/2022

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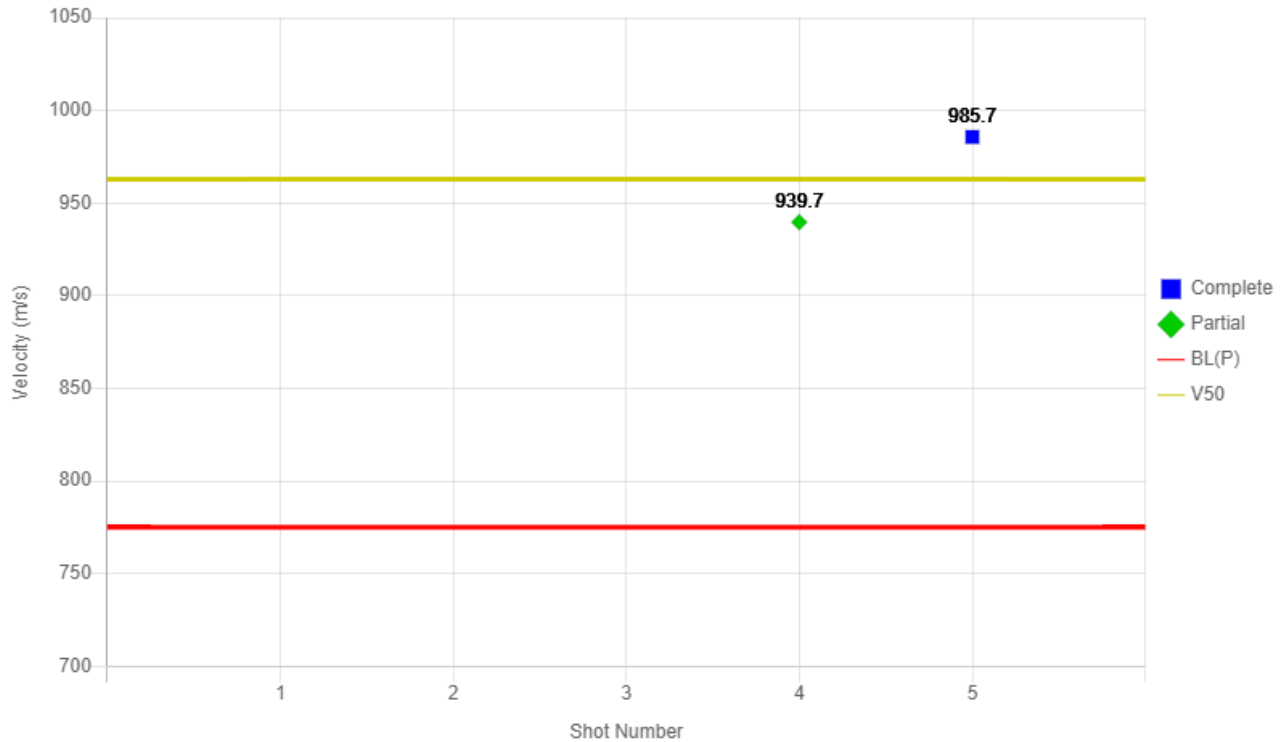
Manufacturer: Safe Pro USA LLC

Sample No.: 274-16LSPBT - Visor

V₅₀ Summary:

No. of Points: 1 and 1
V₅₀: 962.9 m/s
High Partial: 939.7 m/s
Low Complete: 985.7 m/s
Range of Results (ROR): 46.02 m/s
Range of Mix Results (RMR): N/A
Gap: 46.02 m/s

Velocity vs. Shot Number



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-6
Test Date: 02/14/2022 - 02/15/2022
Page 1 of 2

Test Panel Description: Hand Cover,soft armor. Hand Cover. Lot: SP-08-2021. Model: SP-BGA-08. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC **Sample No.:** 274-06SBPT - Hand Cover

Size: 241.300 x 190.500 mm Avg. Thickness: N/A Thicknesses: N/A	Weight: 0.230 kg Plies/Laminates: N/A Required BL(P): 600 m/s	Date Received: 02/11/2022 Received UPS Ground Via: Returned Via: UPS Ground
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Setup

Shot Spacing: STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (m): 1.520, 1.630, 2.950, 3.050 Primary Vel. Location (m): 2.288 Range to Target (m): 4.572 Target to Witness (mm): 152.400	Range No.: Range 4 Temp: 20.1 °C BP: 30.2 inHg RH: 32.2 % Barrel/Gun: CT-2009 Gunner: Bernard Carr Recorder: Joshua Petty
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Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel.2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	8.5	17.0	2269	671.8	1967	671.5	671.5	642.8	C	No	0.0	
2	1	8.2	17.0	2299	662.9	1991	663.2	663.2	634.9	C	No	0.0	
3	1	7.7	17.0	2391	637.3	2072	637.3	637.3	610.2	P	Yes	0.0	
4	1	7.9	17.0	2323	655.9	2013	656.2	655.9	627.9	C	No	0.0	
5	1	7.7	17.0	2450	622.1	2123	622.1	622.1	595.6	C	No	0.0	
6	1	7.5	17.0	2465	618.1	2135	618.7	618.4	592.2	C	Yes	0.0	
7	1	7.2	17.0	2465	618.1	2135	618.7	618.4	592.2	C	No	0.0	
8	1	7.0	17.0	2589	588.6	2245	588.3	588.6	563.6	P	No	0.0	(a)

Remarks:
Required Starting Velocity: 620.0 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:
(a) Testing terminated due to limited available test space.

V₅₀ Summary:
No. of Points: 1 by 1
V₅₀: 601.4 m/s
High Partial: 610.2 m/s
Low Complete: 592.2 m/s
Range of Results (ROR): 17.98 m/s
Range of Mix Results (RMR): 17.98 m/s
Gap: N/A

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

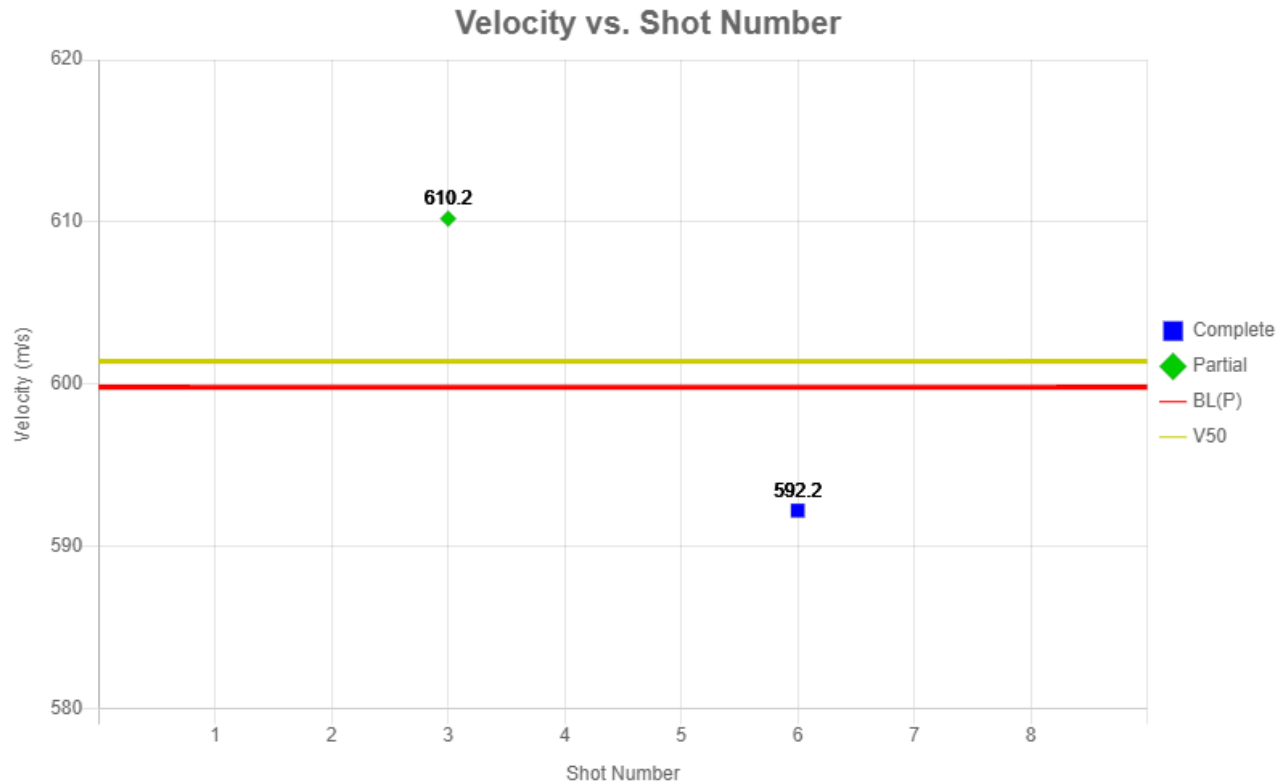
Client: Safe Pro Usa Llc
Job No.: PR154130-6
Test Date: 02/14/2022 - 02/15/2022
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Manufacturer: Safe Pro USA LLC

Sample No.: 274-06SBPT - Hand Cover

V₅₀ Summary:

No. of Points: 1 by 1
V₅₀: 601.4 m/s
High Partial: 610.2 m/s
Low Complete: 592.2 m/s
Range of Results (ROR): 17.98 m/s
Range of Mix Results (RMR): 17.98 m/s
Gap: N/A



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-7
Test Date: 02/14/2022 - 02/15/2022
Page 1 of 2

Test Panel | Description: Boot Cover, soft armor. Boot Cover. Lot: SP-08-2021. Model: SP-BGA-08. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC

Sample No.: 274-13LSPBT - Boot Cover

Size: To Fit Man Height
5'9" to 6'2"
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 0.370 kg
Plies/Laminates: N/A
Required BL(P): 620 m/s

Date Received: 02/11/2022
Received UPS Ground
Via:
Returned Via: UPS Ground

Setup

Shot Spacing: STANAG 2920 Ed 3
AEP 2920 Edition
A, Version 2
Witness Panel: 0.02 in 2024-T3
Aluminum
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (m): 1.520, 1.630,
2.950, 3.050
Primary Vel. Location (m): 2.288
Range to Target (m): 4.572
Target to Witness (mm): 152.400

Range No.: Range 4
Temp: 20.2 °C
BP: 30.2 inHg
RH: 31.9 %
Barrel/Gun: CT-2009
Gunner: Bernard Carr
Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

(1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel.2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	7.5	17.0	2504	608.7	2172	608.1	608.4	582.5	P	No	0.0	
2	1	7.8	17.0	2345	649.8	2032	649.8	649.8	622.1	P	No	0.0	
3	1	8.2	17.0	2264	673.0	1962	673.0	673.0	644.3	P	No	0.0	
4	1	8.6	17.0	2225	684.9	1925	686.1	685.5	656.2	P	Yes	0.0	
5	1	9.6	17.0	2074	734.9	1798	734.6	734.6	703.2	C	No	0.0	
6	1	9.2	17.0	2118	719.6	1832	720.9	720.2	689.5	C	No	0.0	
7	1	8.9	17.0	2147	709.9	1862	709.3	709.6	679.1	C	Yes	0.0	
8	1	8.6	17.0	2198	693.4	1906	692.8	693.1	663.5	C	Yes	0.0	
9	1	8.3	17.0	2255	675.7	1954	676.0	675.7	647.1	P	No	0.0	
10	1	8.4	17.0	2240	680.3	1942	680.0	680.3	651.1	P	Yes	0.0	(a)

Remarks:
Required Starting Velocity: 620.0 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:
(a) Testing terminated due to limited available test space.

V₅₀ Summary:
No. of Points: 2 by 2
V₅₀: 662.6 m/s
High Partial: 656.2 m/s
Low Complete: 663.5 m/s
Range of Results (ROR): 28.04 m/s
Range of Mix Results (RMR): N/A
Gap: N/A

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Job No.: PR154130-7
Test Date: 02/14/2022 - 02/15/2022
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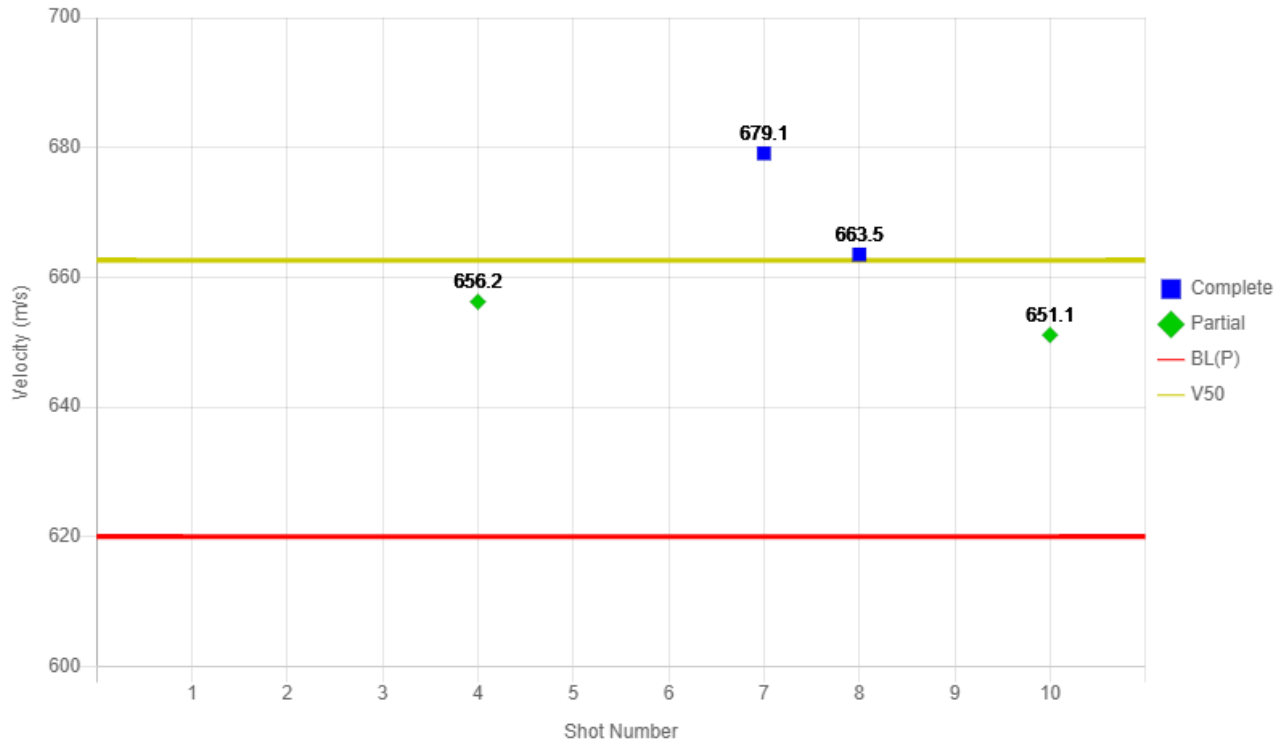
Manufacturer: Safe Pro USA LLC

Sample No.: 274-13LSPBT - Boot Cover

V₅₀ Summary:

No. of Points: 2 by 2
V₅₀: 662.6 m/s
High Partial: 656.2 m/s
Low Complete: 663.5 m/s
Range of Results (ROR): 28.04 m/s
Range of Mix Results (RMR): N/A
Gap: N/A

Velocity vs. Shot Number



PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc

Project No.: PR154130-8

Test Date: 02/15/2022

Page 1 of 1

Test Panel

Description: Chest Protector, hard armor plate backed with soft armor vest. Chest Protector. Lot: SP-08-2021.
Model: SP-BGA-08. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC

Sample No.: Chest Protector.

Size: To Fit Man Height
5'9" to 6'2"
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 7.090 kg
Plies/Laminates: N/A
Required BL(P): 999.7 m/s

Date Received: 02/11/2022
Received FEDEX Ground
Via:
Returned Via: FEDEX Ground

Setup

Shot Spacing: STANAG 2920 Ed 3
AEP 2920 Edition
A, Version 2
Witness Panel: 0.02 in 2024-T3
Aluminum
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (m): 1.520, 1.630,
2.950, 3.050
Primary Vel. Location (m): 2.288
Range to Target (m): 4.572
Target to Witness (mm): 152.400

Range No.: Range 4
Temp: 20.2 °C
BP: 30.2 inHg
RH: 31.5 %
Barrel/Gun: CT-1011
Gunner: Bernard Carr
Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

- (1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016
- (2) Customer Request

Shot No.	Ammo	Powder/Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel. 2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	13.0	17.0	1268	1201.8	1100	1200.6	1201.2	1154.3	P	No	0.0	
2	1	14.5	17.0	1224	1245.1	1061	1244.8	1244.8	1196.9	P	No	0.0	
3	1	15.5	17.0	1173	1299.4	1017	1298.8	1299.1	1249.7	P	No	0.0	
4	1	16.5	17.0	1137	1340.5	983	1343.6	1342.0	1291.7	P	No	0.0	
5	1	17.5	17.0	1083	1407.3	939	1406.3	1407.0	1355.4	P	No	0.0	
6	1	18.0	17.0	1085	1404.5	941	1403.6	1403.9	1352.7	P	No	0.0	(a)

Remarks:

Required Starting Velocity: 1130.2 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:

(a) Testing terminated per customer request

V₅₀ Summary:

No. of Points: N/A
V₅₀: N/A
High Partial: 1355.4 m/s
Low Complete: N/A
Range of Results (ROR): N/A
Range of Mix Results (RMR): N/A
Gap: N/A

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-9
Test Date: 02/15/2022
Page 1 of 1

Test Panel Description: Groin Protector, hard armor plate backed with soft armor vest. Groin Protector. Lot: SP-08-2021.
Model: SP-BGA-08. Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC **Sample No.:** 274-05SPBT - Groin Protector

Size: To Fit Man Height 5'9" to 6'2" Avg. Thickness: N/A Thicknesses: N/A	Weight: 7.180 kg Plies/Laminates: N/A Required BL(P): 1100 m/s	Date Received: 02/11/2022 Received FEDEX Ground Via: Returned Via: FEDEX Ground
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Setup

Shot Spacing: STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 Witness Panel: 0.02 in 2024-T3 Aluminum Backing Material: N/A Condition: Ambient	Primary Vel. Screens (m): 1.520, 1.630, 2.950, 3.050 Primary Vel. Location (m): 2.288 Range to Target (m): 4.572 Target to Witness (mm): 152.400	Range No.: Range 4 Temp: 20.3 °C BP: 30.2 inHg RH: 30.1 % Barrel/Gun: CT-1011 Gunner: Bernard Carr Recorder: Joshua Petty
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Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

- (1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016
- (2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel.2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	15.0	17.0	1183	1288.4	1024	1289.6	1289.0	1239.9	P	No	0.0	
2	1	16.0	17.0	1141	1335.6	990	1334.1	1334.7	1284.7	P	No	0.0	
3	1	17.0	17.0	1083	1407.3	939	1406.3	1407.0	1355.4	P	No	0.0	
4	1	18.0	17.0	1073	1420.4	929	1421.6	1421.0	1369.5	P	No	0.0	(a)

Remarks:
Required Starting Velocity: 1130.2 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:
(a) Testing terminated per customer request.

V₅₀ Summary:
No. of Points: N/A
V₅₀: N/A
High Partial: 1369.5 m/s
Low Complete: N/A
Range of Results (ROR): N/A
Range of Mix Results (RMR): N/A
Gap: N/A

PROTECTION BALLISTIC LIMIT TEST, V₅₀ BL(P)

NTS-Chesapeake Testing

4603B Compass Point Road
Belcamp, MD 21017

Client: Safe Pro Usa Llc
Project No.: PR154130-10
Test Date: 02/15/2022
Page 1 of 1

Test Panel

Description: Suit + Plate, hard armor plate backed with soft armor vest. Lot: SP-08-2021. Model: SP-BGA-08.
Contract: 218.274.19.

Manufacturer: Safe Pro USA LLC

Sample No.: Suit + Plate

Size: To Fit Man Height
5'9" to 6'2"
Avg. Thickness: N/A
Thicknesses: N/A

Weight: 7.090 kg
Plies/Laminates: N/A
Required BL(P): 780 m/s

Date Received: 02/11/2022
Received FEDEX Ground
Via:
Returned Via: FEDEX Ground

Setup

Shot Spacing: STANAG 2920 Ed 3
AEP 2920 Edition
A, Version 2
Witness Panel: 0.02 in 2024-T3
Aluminum
Backing Material: N/A
Condition: Ambient

Primary Vel. Screens (m): 1.520, 1.630,
2.950, 3.050
Primary Vel. Location (m): 2.288
Range to Target (m): 4.572
Target to Witness (mm): 152.400

Range No.: Range 4
Temp: 20.2 °C
BP: 30.2 inHg
RH: 30.9 %
Barrel/Gun: CT-1011
Gunner: Bernard Carr
Recorder: Joshua Petty

Ammunition

Projectile	Lot No.	Manufacturer	Powder
(1) .22-cal., 17-grain FSP	17061021	Contra Threat Sciences	Bullseye

Applicable Standards or Procedures

- (1) STANAG 2920 Ed 3 AEP 2920 Edition A, Version 2 dated September 2016
- (2) Customer Request

Shot No.	Ammo	Powder/ Seating	Weight (gr)	Time 1 (µs)	Vel. 1 (m/s)	Time 2 (µs)	Vel. 2 (m/s)	Avg. Vel. (m/s)	Striking Vel. (m/s)	Result	Include in V ₅₀	Obliq. (°)	Footnotes
1	1	12.5	17.0	1295	1176.8	1120	1179.3	1178.1	1131.7	P	No	0.0	
2	1	13.0	17.0	1332	1144.2	1156	1142.4	1143.3	1097.9	P	No	0.0	
3	1	13.5	17.0	1246	1223.2	1080	1222.9	1222.9	1175.6	P	No	0.0	
4	1	14.0	17.0	1234	1235.0	1068	1236.6	1235.7	1188.1	P	No	0.0	
5	1	14.5	17.0	1220	1249.1	1056	1250.6	1250.0	1201.8	P	No	0.0	(a)

Remarks:
Required Starting Velocity: 1130.2 m/s.
Projectile yaw check: Less than 3° yaw on all impacts.

Footnotes:
(a) Testing terminated per customer request

V₅₀ Summary:
No. of Points: N/A
V₅₀: N/A
High Partial: 1201.8 m/s
Low Complete: N/A
Range of Results (ROR): N/A
Range of Mix Results (RMR): N/A
Gap: N/A



ATTACHMENT A CALIBRATION DATA

NCR = No Calibration Required.

Asset Number	Asset Type	Manufacturer	Model	Calibrated	Due
WC060268	Meter (Chronograph)	YIS/Cowden Group, Inc	Chrono-USB (17025)	09/16/2021	09/16/2022
WC060403	Scale (Floor)	Sartorius	Combics	12/06/2021	12/06/2022
WC060617	Barrel (gun)	Bill Wiseman & Company	N/A	NCR	NCR
WC060676	Barrel (gun)	Bill Wiseman & Company	N/A	NCR	NCR
WC024521	Barrel (gun)	Bill Wiseman & Company	N/A	NCR	NCR
WC060685	Measurement Tools (Angle Gauge)	SPI	91-316-0	06/01/2020	06/01/2022
WC060803	Range (shooting)	N/A	N/A	NCR	NCR
WC062125	Gauge (Depth)	Starrett	3753A-6/150	06/16/2021	06/16/2022
WC067021	Meter (Chronograph)	YIS/Cowden Group, Inc	Chrono-USB (17025)	09/16/2021	09/16/2022
WC074970	Measurement Tools (Tape Measure)	Dewalt Industrial Tool	DWHT36107	06/25/2021	06/25/2023
WC074979	Meter (Thermometer)	Control Company	4371	03/09/2020	03/09/2022
WC074982	Meter (Thermometer)	Control Company	4371	03/09/2020	03/09/2022
WC075066	Measurement Tools (Tape Measure)	Starrett	530-100	11/10/2020	11/10/2022
WC075105	Scale (Digital)	RCBS	Charge Master 1500	09/03/2021	09/03/2022
WC075111	Sensor (Temperature/Humidity)	Omega Engineering	ZW-CM-BTH	03/23/2021	03/23/2022
WC078618	Measurement Tools (Tape Measure)	Craftsman	CMHT37525	06/25/2021	06/25/2023



END OF REPORT