



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: M9 Defense
OBL ID#: 8174
Test Date: 3/10/2014
Purchase Order:

TEST SAMPLE

Sample No.: N/A
Heat No.: N/A
Lot No.: N/A
Plies: N/A
Description: Helmet / No retention system

Size: N/A
Weight (oz.): 34.6
Thickness: 7.353 7.544 7.670 8.202
Avg. Thk. (mm): 7.692

RANGE SET-UP

Range to Target: 15 ft.
Screen Dist. Vel. 1 (ft.): 5
Screen Dist. Vel. 2 (ft.): 5
Screen 4 to target (ft): N/A
Primary Vel. Location: 8.25 ft. from target
Striking Velocity: No
Target to Witness: N/A
Witness Panel: N/A
Backing Material: Clay filled headform
Obliquity: 0 Degrees
Barrel: 9mm Luger/1:10/4.5"

Range #: 2
Temperature: 67.7 °F
Bar. Pressure: 30.10 in. Hg
Rel. Humidity: 53.1 %
Sample Temp: Amb. °F
Recorder: Brandon Bertsch
Gunner: Scott Buell

Pre Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:
Clay Box #:
Post Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:

AMMUNITION

Projectile: 9mm 124gr. FMJ Lot #23558
Powder: Accurate No. 2

STANDARDS / PROCEDURES

Per customer request
Required Velocity: 1400 fps + 50 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	BFD	NOTES
1	124.9	7.7	3471	3480	1441	1437	1439	P	0°	9.22	Crown
2	125.0	7.7	3505	3507	1427	1426	1427	P	0°	18.86	Front
3	124.8	7.7	3498	3507	1429	1426	1428	P	0°	10.55	Back
4	125.4	7.7	3459	3469	1446	1441	1444	P	0°	18.00	Left
5	125.2	7.7	3477	3487	1438	1434	1436	P	0°	17.14	Right

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:



This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.



OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: M9 Defense
OBL ID#: 8175
Test Date: 3/10/2014
Purchase Order:

TEST SAMPLE

Sample No.:	N/A	Size:	N/A
Heat No.:	N/A	Weight (oz.):	34.8
Lot No.:	N/A	Thickness:	8.003 7.157 6.799 8.032
Plies:	N/A	Avg. Thk. (mm):	7.498
Description:	Helmet / No retention system		

RANGE SET-UP

Range to Target:	15 ft.	Range #:	2	Pre Test:	
Screen Dist. Vel. 1 (ft.):	5	Temperature:	67.7 °F	Clay Drops (mm):	
Screen Dist. Vel. 2 (ft.):	5	Bar. Pressure:	30.10 in. Hg	Drop Avg (mm):	
Screen 4 to target (ft):	N/A	Rel. Humidity:	53.1 %	Clay Temp °F:	
Primary Vel. Location:	8.25 ft. from target	Sample Temp.	Amb. °F	Clay Box #:	
Striking Velocity:	No	Recorder:	Brandon Bertsch	Post Test:	
Target to Witness:	N/A	Gunner:	Scott Buell	Clay Drops (mm):	
Witness Panel:	N/A			Drop Avg (mm):	
Backing Material:	Clay filled headform			Clay Temp °F:	
Obliquity:	0 Degrees				
Barrel:	9mm Luger/1:10/4.5"				

AMMUNITION

Projectile: 9mm 124gr. FMJ Lot #23558 Powder: Accurate No. 2

STANDARDS / PROCEDURES

Per customer request Required Velocity: 1400 fps + 50 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	BFD	NOTES
1	124.9	7.5	3570	3571	1401	1400	1401	P	0°	14.98	Crown
2	125.3	7.7	3499	3509	1429	1425	1427	P	0°	15.15	Front
3	124.6	7.7	3507	3516	1426	1422	1424	P	0°	19.52	Back
4	125.0	7.7	3531	3540	1416	1412	1414	P	0°	19.33	Left
5	125.2	7.7	3470	3480	1441	1437	1439	P	0°	16.73	Right

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:



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OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: M9 Defense
OBL ID#: 8029
Test Date: 2/4/1900
Purchase Order:

TEST SAMPLE

Sample No.: .44 Mag V0
Heat No.: N/A
Lot No.: N/A
Plies: N/A
Description: Proprietary

Size: N/A
Weight (oz.): 35.8
Thickness: 6.423 6.844 5.948 6.719
Avg. Thk. (mm): 6.484

RANGE SET-UP

Range to Target: 16.5 ft.
Screen Dist. Vel. 1 (ft.): 5
Screen Dist. Vel. 2 (ft.): 5
Screen 4 to target (ft): N/A
Primary Vel. Location: 8.25 ft. from target
Striking Velocity: No
Target to Witness: 2 in.
Witness Panel: 0.020" 2024-T3 Alum.
Backing Material: N/A
Obliquity: 0 Degrees
Barrel: .44 Mag/1:20/10"

Range #: 2
Temperature: 67.1 °F
Bar. Pressure: 29.86 in. Hg
Rel. Humidity: 52.7 %
Sample Temp: Amb. °F
Recorder: Brandon Bertsch
Gunner: Scott Buell

Pre Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:
Clay Box #:
Post Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:

AMMUNITION

Projectile: .44 Mag 240gr. SJHP Lot #4453

Powder: Accurate No. 2

STANDARDS / PROCEDURES

NIJ-STD-0106.01 Level IIIA (mod)

Required Velocity: 1400 fps ± 50 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	BFD	NOTES
1	239.7	12.6	3506	3515	1426	1422	1424	P	0°		F
2	239.8	12.6	3495	3500	1431	1429	1430	P	0°		B
3	240.4	12.6	3535	3558	1414	1405	1410	P	0°		L
4	239.7	12.6	3533	3556	1415	1406	1411	P	0°		R

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:



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OREGON BALLISTIC LABORATORIES

BALLISTIC RESISTANCE TEST - V₀

Customer: M9 Defense
OBL ID#: 8032
Test Date: 2/18/2014
Purchase Order:

TEST SAMPLE

Sample No.: .44 Mag V0
Heat No.: N/A
Lot No.: N/A
Plies: N/A
Description: Proprietary

Size: N/A
Weight (oz.): 35.8
Thickness: 7.065 7.447 8.135 8.098
Avg. Thk. (mm): 7.686

RANGE SET-UP

Range to Target: 16.5 ft.
Screen Dist. Vel. 1 (ft.): 5
Screen Dist. Vel. 2 (ft.): 5
Screen 4 to target (ft): N/A
Primary Vel. Location: 8.25 ft. from target
Striking Velocity: No
Target to Witness: 2 in.
Witness Panel: 0.020" 2024-T3 Alum.
Backing Material: N/A
Obliquity: 0 Degrees
Barrel: .44 Mag/1:20/10"

Range #: 2
Temperature: 67.1 °F
Bar. Pressure: 29.86 in. Hg
Rel. Humidity: 52.7 %
Sample Temp: Amb. °F
Recorder: Brandon Bertsch
Gunner: Scott Buell

Pre Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:
Clay Box #:
Post Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:

AMMUNITION

Projectile: .44 Mag 240gr. SJHP Lot #4453

Powder: Accurate No. 2

STANDARDS / PROCEDURES

NIJ-STD-0106.01 Level IIIA (mod)

Required Velocity: 1400 fps ± 50 fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μs (10 ⁻⁶)	TIME 2 μs (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	OBLIQUITY	BFD	NOTES
1	240.4	12.6	3520	3542	1420	1412	1416	P	0°		F
2	240.1	12.6	3535	3558	1414	1405	1410	P	0°		B
3	240.4	12.6	3504	3541	1427	1412	1420	P	0°		L
4	239.6	12.6	3537	3560	1414	1404	1409	P	0°		R

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

TEST RESULTS:

Test sample satisfied the ballistic requirements given.

FOOTNOTES:



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OREGON BALLISTIC LABORATORIES

BALLISTIC LIMIT TEST - V₅₀ BL(P)

Customer: M9 Defense
OBL ID#: 8176
Test Date: 3/7/2014
Purchase Order:

TEST SAMPLE

Sample No.: Frag
Model No.: N/A
Lot No.: N/A
Plies: N/A
Description: Proprietary

Size: N/A
Weight (oz.): 25.8
Thickness: 6.552 7.356 7.070 7.129
Avg. Thk. (mm): 7.027

RANGE SET-UP

Range to Target: 15 ft.
Screen Dist. Vel. 1 (ft.): 5
Screen Dist. Vel. 2 (ft.): 5
Screen 4 to Target (ft): N/A
Primary Vel. Location: 8.25 ft. from target
Striking Velocity: No
Target to Witness: 6 in.
Witness Panel: 0.020" 2024-T3 Alum.
Backing Material: N/A
Obliquity: 0 Degrees
Barrel: 5.56mm NATO/1:7/24"

Range #: 2
Temperature: 69.5 °F
Bar. Pressure: 29.98 in. Hg
Rel. Humidity: 53.7 %
Sample Temp. Amb.
Recorder: Brandon Bertsch
Gunner: Scott Buell

Pre Test:
Clay Drops (mm):
Drop Avg (mm):
Clay Temp °F:
Clay Box #:

AMMUNITION

Projectile: 17gr. FSP

Powder: Accurate No. 2

STANDARDS / PROCEDURES

MIL-STD-662F

Required Velocity: fps

SHOT NO.	PROJECTILE WT. (gr.)	POWDER WT. (gr.)	TIME 1 μ s (10 ⁻⁶)	TIME 2 μ s (10 ⁻⁶)	VELOCITY 1 ft/s	VELOCITY 2 ft/s	AVERAGE VELOCITY	PENET. P/C	INCLUDE YES/NO	NOTES
1	17.0	4.0	2559	2571	1954	1945	1950	P	NO	
2	17.0	5.0	2154	2165	2321	2309	2315	P	NO	
3	17.0	6.0	1831	1841	2731	2716	2724	C	NO	
4	17.0	5.5	1995	2006	2506	2493	2500	C	YES	
5	17.0	5.3	2012	2024	2485	2470	2478	C	YES	
6	17.0	5.1	2099	2105	2382	2375	2379	P	YES	
7	17.0	5.2	2045	2051	2445	2438	2442	P	YES	
8	17.0	5.3	2034	2041	2458	2450	2454	C	YES	
9	17.0	5.2	2040	2047	2451	2443	2447	P	YES	

REMARKS:

P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

RESULTS:

V₅₀: 2450
No. of Points: 3P / 3C
High Partial: 2447
Low Complete: 2454
Range of Results: 121
Range of mixed results:
Required V₅₀ Margin:



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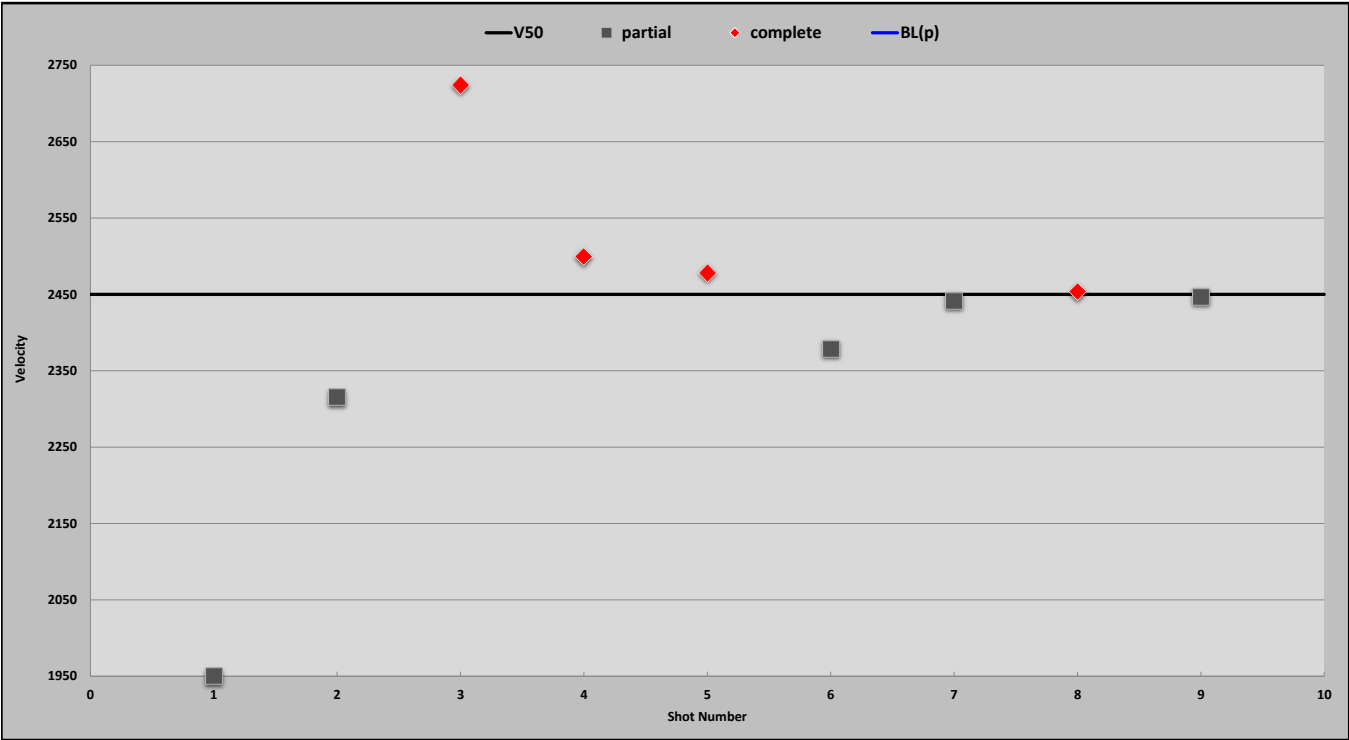
OREGON BALLISTIC LABORATORIES

BALLISTIC LIMIT TEST - V₅₀ BL(P)

Customer:	M9 Defense
OBL ID#:	8176
Test Date:	3/7/2014
Purchase Order:	

TEST SAMPLE	
Sample No.:	Frag
Heat No.:	N/A
Lot No.:	N/A
Plies:	N/A
Description:	Proprietary
Size (in.):	N/A
Weight (lb.):	25.8
Thickness:	6.552 7.356 7.070 7.129
Avg. Thk. (in):	7.027

Velocity vs. Shot Number



REMARKS:
P=Partial Penetration
C=Complete Penetration
UH=Unfair Hit

RESULTS:	
V ₅₀ :	2450
No. of Points:	3P / 3C
High Partial:	2447
Low Complete:	2454
Range of Results:	121
Range of mixed results:	
Required V ₅₀ Margin:	