



January 7, 2020

Sarkar Tactical Inc.
8736 Gateway Blvd E
Suite C
El Paso, Texas 79907
ATTN: Sam Sarkar

Dear Mr. Sarkar:

In accordance with your instructions, Oregon Ballistic Laboratories conducted Ballistic Limit (V_{50}) testing on one sample.

The sample was tested in accordance with MIL-STD-662F in an indoor range with the muzzle of the test barrel mounted 15 feet away from the target and positioned to produce 0-degree obliquity impacts. Four infrared light screens, in conjunction with two time-based frequency counters, were positioned such that projectile velocity was measured 8.25 feet from the target. Penetrations were determined by examination of a 0.020-inch 2024-T3 aluminum witness mounted 2-inches behind the test sample. Results for all testing performed for this purpose are summarized in the following table.

Test Sample			Threat	Results				
OBL No.	S/N.:	Weight (lbs.)	Projectile	High Partial	Low Complete	Range of Results	Mixed Results	V_{50}
23696	N/A	2.69	17gr. FSP	2368	2278	92	90	<u>2329</u>

Samples will be maintained at Oregon Ballistic Laboratories for 30 days and then discarded unless other instructions are received. If you have any further questions or concerns, please contact us.

Sincerely,

Brandon Bertsch
Oregon Ballistic Laboratories

Customer: Sarkar Tactical
 OBL ID#: 23696
 Date Rcv'd: 1/3/2020
 Test Date: 1/6/2020
 Purchase Order:

TEST SAMPLE

Serial No.:	N/A	Size:	N/A			
Lot No.:	N/A	Weight (lb.):	2.69			
Model No.:	N/A	Thickness:	0.269	0.292	0.316	0.313
Plies:	N/A	Avg. Thk. (in):	0.298			
Description:	Ballistic Helmet					

RANGE SET-UP

Range to Target:	15 ft.	Range #:	3	Pre Test:	
Screen Dist. Vel. 1 (ft.):	5	Temperature:	69.8 °F	Clay Drops (mm):	
Screen Dist. Vel. 2 (ft.):	5	Bar. Pressure:	30.36 in. Hg	Drop Avg (mm):	
Screen 4 to Target (ft):	N/A	Rel. Humidity:	43.7 %	Clay Temp °F:	
Primary Vel. Location:	8.25 ft. from target	Sample Temp.	Amb.	Clay Box #:	
Striking Velocity:	No	Recorder:	Jesse Crisanti		
Target to Witness:	2 in.	Gunner:	Josh Humphreys		
Witness Panel:	0.020" 2024-T3 Alum.				
Backing Material:	N/A				
Obliquity:	0 Degrees				
Barrel:	.223 Rem FRAG/1:12/11"				

AMMUNITION

Projectile: 17gr. FSP Powder: D032-03

STANDARDS / PROCEDURES

MIL-STD-662F Required Velocity: 2215 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	5.7	2218	2223	2254	2249	2252	P	NO	
2	17.0	6.1	2093	2098	2389	2383	2386	C	NO	
3	17.0	5.9	2110	2114	2370	2365	2368	P	YES	
4	17.0	6.1	2082	2085	2402	2398	2400	C	NO	
5	17.0	5.8	2193	2198	2280	2275	2278	C	YES	
6	17.0	5.6	2193	2152	2280	2323	2302	P	YES	
7	17.0	5.8	2135	2139	2342	2338	2340	C	YES	
8	17.0	5.6	2221	2226	2251	2246	2249	P	NO	
9	17.0	5.7	2171	2174	2303	2300	2302	P	YES	
10	17.0	5.8	2160	2164	2315	2311	2313	P	YES	
11	17.0	5.9	2108	2112	2372	2367	2370	C	YES	

REMARKS:

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

RESULTS:

V ₅₀ :	2329
No. of Points:	3P / 3C
High Partial:	2368
Low Complete:	2278
Range of Results:	92
Range of mixed results:	90
Required V ₅₀ Margin:	114



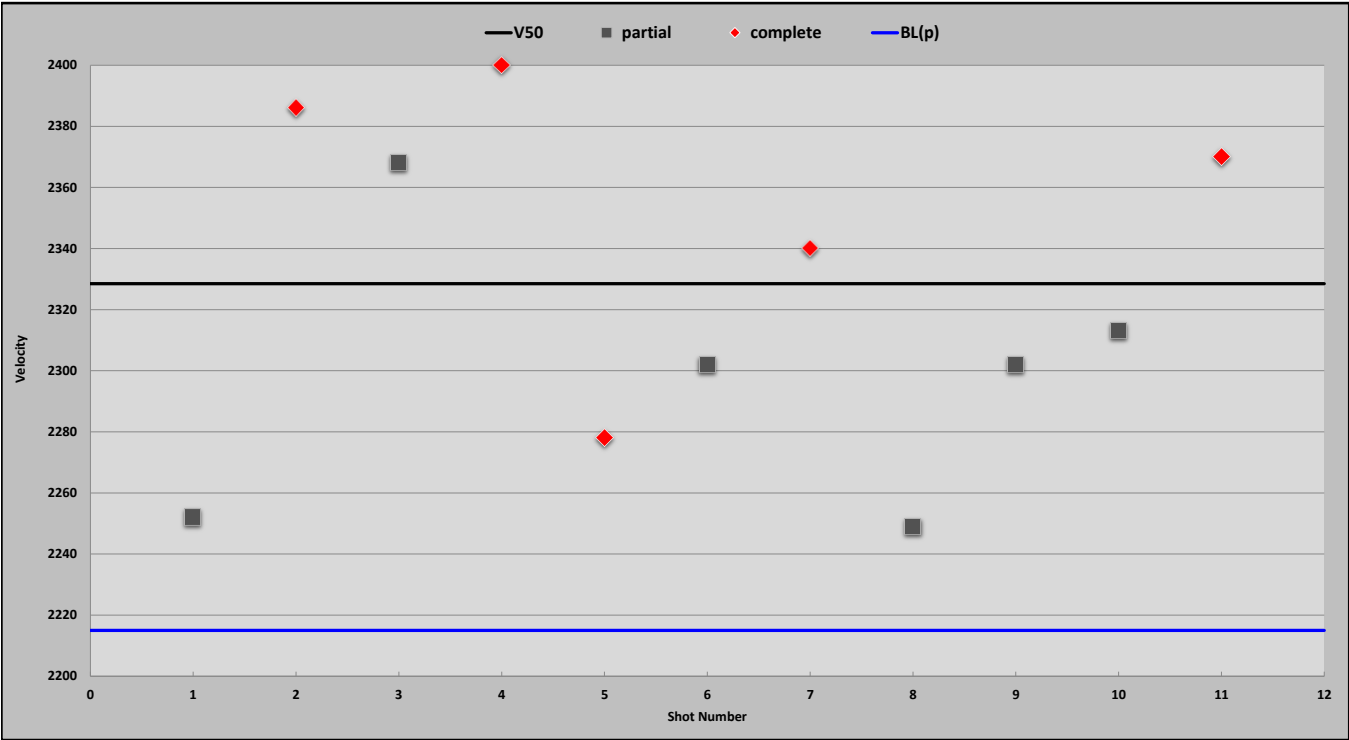
OREGON BALLISTIC LABORATORIES

BALLISTIC LIMIT TEST - V₅₀ BL(P)

Customer:	Sarkar Tactical
OBL ID#:	23696
Test Date:	1/6/2020
Purchase Order:	

TEST SAMPLE			
Sample No.:	N/A	Size (in.):	N/A
Heat No.:	N/A	Weight (lb.):	2.69
Lot No.:	N/A	Thickness:	0.269 0.292 0.316 0.313
Plies:	N/A	Avg. Thk. (in):	0.298
Description:	Ballistic Helmet		

Velocity vs. Shot Number

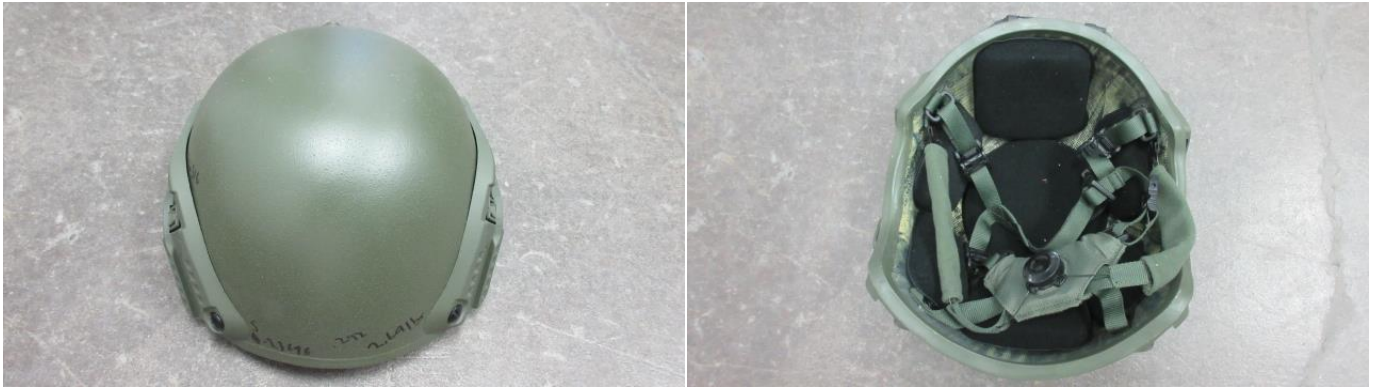


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This report pertains only to the samples tested and must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

OBL# 23696 – Pre Test



OBL# 23696 – Post Test

