TECHNICAL SPECIFICATIONS

CALIBER ARMOR®
BE PREPARED FOR ANYTHING

Caliber Armor IIIA/HG2 High Cut Ballistic Helmet

NIJ-STD-0101.07 IIIA + HG2
NIJ-STD-0106.01 & MIIL-STD-662F







BK
CT
OD

Key Features:

- Hybrid UHMWPE and aramid-fiber shell construction
- 4 pt adjustable Retention Harness w/ Dial Adjustment
- D30 Halo™ 7 Pad Helmet Lining System (30% Lighter than competition)
- Fully loaded Options:
  - Exterior Loop, NVG Shock Cord Kit, Side Rails w/ Caliber Armor Shroud
  - Exterior Loop, NVG Shock Cord Kit, Side Rails w/ Unity SUMMIT™ Shroud
- 5 year warranty

Helmet Sizing:

Helmet Size	Head Circumference
Small	20.08 - 21.65 in
Medium	21.26 - 23.23 in
Large	22.83 - 24.41 in
X-Large	24.02 - 25.59 in

Testing Results:

- 9 mm (1,470± 30 ft/s) BFD= 19.54mm
- 44 Magnum (1,430 ± 30 ft/s) BFD = 29.26mm
- Fragmentation resistance: Reported 17-grain fragmentation V50 of 2,351 ft/s. (MIL-STD-662F)
- Blunt Impact Performance: D30 Halo™ 7 liner system exceeds the applicable ACH blunt-impact requirements (AR/PD 10-02) by 33%.

Size	Shell Weight (lb)	Standard	Fully Loaded - CA Shroud	Fully Loaded - Unity Shroud	Width (mm)	Length (mm)	Height at Ear Level (mm)
SMALL	1.81 ± 0.07	2.28 lbs	2.68 lbs	2.65 lbs	181 ± 5	231 ± 5	96 ± 5
MEDIUM	1.90 ± 0.07	2.36 lbs	2.79 lbs	2.76 lbs	190 ± 5	243 ± 5	96 ± 5
LARGE	2.01 ± 0.07	2.48 lbs	2.9 lbs	2.87 lbs	195 ± 5	252 ± 5	96 ± 5
X-LARGE	2.12 ± 0.07	2.56 lbs	3.01 lbs	2.98 lbs	207 ± 5	266 ± 5	96 ± 5

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NIJ STANDARD-0101.07 IIIA
This product has been independently tested by an NVLAP accredited NIJ approved laboratory to meet or exceed ballistic resistance as specified under NIJ Standard 0101.07 and against FRAG resistance as specified under MIL-STD 662F

Export Administration Regulations (EAR):
Level IIIA body armor and helmets fall under jurisdiction of the Export Administration Regulations (EAR), and is subject to the export control laws of the US Government. Export or re-transfer by any means to any foreign end user or for any other end use, whether in the US or abroad without written approval of the US Department of Commerce or Department of State is prohibited. The sale, transfer, transportation, or shipment outside of the US of any product prohibited or restricted for export without complying with US export control laws and regulations, including proper export licensing, documentation or authorization, is strictly prohibited and may result in civil penalties and/or constitute a federal crime.

TECHNICAL SPECIFICATIONS

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Caliber Armor Ballistic Helmet Testing Results

NIJ-STD-0101.07 IIIA + HG2
NIJ-STD-0106.01 & MIIL-STD-662F

SMS TESTING

These testing results are provided by an independent NIJ approved lab, SMS Testing. Our Helmets are tested regularly and these results have been randomly selected and reproduced here.

Ballistic Resistance:

The samples were tested in accordance with NIJ-STD-0101.07 Level IIIA (modified) & NIJ-STD-0106.01 (modified) in an indoor range with the muzzle of the test barrel mounted 17.2 feet away from the target and positioned to produce 0-degree obliquity impacts. Two infrared light screens, in conjunction with time-based frequency counters, were positioned such that bullet velocity was measured 8.2 feet from the target. Penetrations were determined by examination of a clay filled headform mounted to the test sample. Results for all testing performed for this purpose are summarized in the following table.

9mm V0

Shot Table											
Shot No.	Ammo	Weight (Gr)	Time 1 (sec)	Vel. 1 (ft/s)	Time 2 (sec)	Vel. 2 (ft/s)	Velocity Average (ft/s)	Penetration	BFD (mm)	Obliq.	Notes
1	1	6	0.004539	1432	0.003504	1427	1429.5	P	20.9	0°	Front
2	1	6	0.004477	1452	0.003458	1446	1449.0	P	17.1	0°	Back
3	1	6	0.004483	1450	0.003463	1444	1447.0	P	24.2	0°	Left
4	1	6	0.004458	1458	0.003441	1453	1455.5	P	19	0°	Right
5	1	6	0.004455	1459	0.003439	1454	1456.5	P	16.5	0°	Crown

.44 Mag V0

Shot Table											
Shot No.	Ammo	Weight (Gr)	Time 1 (sec)	Vel. 1 (ft/s)	Time 2 (sec)	Vel. 2 (ft/s)	Velocity Average (ft/s)	Penetration	BFD (mm)	Obliq.	Notes
1	1	14.2	0.004561	1425	0.003524	1419	1422.0	P	32.6	0°	Front
2	1	14.2	0.004590	1416	0.003546	1410	1413.0	P	30.1	0°	Back
3	1	14.2	0.004581	1419	0.003536	1414	1416.5	P	30.4	0°	Left
4	1	14.2	0.004610	1410	0.003559	1405	1407.5	P	34.1	0°	Right
5	1	14.2	0.004577	1420	0.003536	1414	1417.0	P	19.1	0°	Crown

Remarks:
P=Partial Penetration
C=Complete Penetration

FRAG Resistance:

The samples were 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. Two infrared light screens, in conjunction with time-based frequency counters, were positioned such that bullet velocity was measured 7.5 feet from the target. Results for all testing performed for this purpose are summarized in the following table.

17 gr V50

Shot Table											
Shot No.	Ammo	Weight (Gr)	Time 1 (sec)	Vel. 1 (ft/s)	Time 2 (sec)	Vel. 2 (ft/s)	Velocity Average (ft/s)	Penetration	V50 Calc.	Obliq.	Notes
1	1	7.2	0.002228	2244	0.002233	2239	2241.5	P		0°	Crown
2	1	8.6	0.002123	2355	0.002128	2350	2352.5	C	Y	0°	Front
3	1	7.6	0.002340	2137	0.002346	2131	2134.0	P		0°	Left
4	1	8.2	0.002255	2217	0.002262	2210	2213.5	P		0°	Rear
5	1	8.8	0.002193	2280	0.002199	2274	2277.0	P		0°	Right
6	1	9.4	0.002114	2365	0.002118	2361	2363.0	P	Y	0°	Crown
7	1	10	0.002075	2410	0.002079	2405	2407.5	P	Y	0°	Front
8	1	10.6	0.002032	2461	0.002036	2456	2458.5	P	Y	0°	Left
9	1	11.2	0.002011	2486	0.002015	2481	2483.5	C	Y	0°	Rear
10	1	10.8	0.002023	2472	0.002027	2467	2469.5	C	Y	0°	Right

Results							
V50 (ft/s):	2351	Partials:	3	Complete:	3	Grouping:	3x3
High Partial (ft/s):	2386	Range (ft/s):	127				
Low Complete (ft/s):	2284	Mix (ft/s):	103				

Remarks:
P=Partial Penetration
C=Complete Penetration
Projectile Yaw Check: 0° on impacted areas.