

Hornady



2011
LAW ENFORCEMENT &
MILITARY PRODUCTS



TEST PROTOCOL

Bullet Velocity

All trajectories and associated velocities are from minimum specification test barrels. An Oehler model 35 P with model 55 skyscreens was used for velocity measurements. Bullet velocity was measured at a distance of 15 feet from the muzzle. Down range velocities shown in the ballistic tables are calculated with an exterior ballistics computer program.

Trajectory Tables

Trajectories are calculated using a computer code. A (-) sign indicates the trajectory of the bullet is below the line of sight. A (+) sign indicates the trajectory of the bullet is above the line of sight. All trajectories were calculated for 59° Fahrenheit and 29.50 inches of mercury atmospheric pressure.

10% Ballistic Gelatin Tests

All ballistic gelatin was prepared in accordance with the procedure outlined by Dr. Martin Fackler and Mr. John Malinowski in their article, "Ordnance Gelatin for Ballistic Studies, The Journal of Forensic and Pathology 9 (3): 218-219 1998". All gelatin was stored at 40° F until just prior to testing. Each block of gelatin used was calibrated with a BB fired at a velocity of 585 to 610 fps with a depth of penetration of 3.1 to 3.9 inches. The gelatin was placed 30 feet from the muzzle of the test weapon (unless otherwise noted).



Location:

Hornady Manufacturing Ballistic Laboratory
Grand Island, Nebraska

Elevation: 1,800 feet ASL

Temperature: 74°

All terminal testing is from actual firearms.

NOTE

The data provided in this report is intended as a guide for ammunition selection. It is not meant to be a definitive report but rather a tool to be used for making informed choices. Actual bullet trajectory and terminal performance may vary depending on the velocity of the bullet in your weapon, atmospheric conditions, type of materials encountered and the anatomical structures contacted.



The best source for TAP® information

For the complete story on high performance TAP® ammo, including ballistics charts, ballistic gelatin test results and more, download our TAP® Ammunition Test Report and Application Guide from www.hornadyLE.com.

At Hornady®, we're constantly adding to our already extensive line of bullets and ammunition. However, we also understand that all departments are not the same and you might have some special needs of your own. To discuss any unique requirements, contact our Law Enforcement Division at 1-800-338-3220 or visit us on the web at www.hornadyLE.com.

Tactical Application Police



Rick Staples
Retired Law Enforcement
Firearms instructor

"In my 35 years of Law Enforcement experience I have had the opportunity to use many manufacturers' ammunition. Hornady TAP Ammunition is, by far, the most accurate and reliable ammo that I have used.

For a police officer, nothing is more important than being able to rely on your equipment. Not only does Hornady TAP Ammunition function reliably, the terminal ballistics are consistent and effective.

I also use and carry Hornady ammo in my concealed carry firearms. If I didn't have faith in it, I wouldn't use it."



Giles Stok
Police Sergeant, Retired
Law Enforcement and Military Training
Consultant

"My clients and I demand the highest quality and performance in our ammunition. Hornady Manufacturing delivers on both counts!

Hornady offers the broadest selection of well-defined ammunition performance features to meet the needs of Law Enforcement and Military."

Today's law enforcement professional must be prepared to face a greater variety of critical situations than ever before. That's why the Hornady® Law Enforcement Performance Group developed TAP®, a line of police ammunition that is as street-ready as the officer carrying it.

The Law Enforcement Performance Group's mission for the TAP® line of ammunition is centered around one simple belief: A law enforcement professional deserves to be armed with ammunition that has been specially designed for his or her specific tactical situation.

The result is a growing line of specialized ammunition from a legendary company that understands bullet design and ballistic physics better than anyone else in the world — Hornady®.



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Critical Defense®, Custom™, FTX®, NTX®, Light Magnum®, Lock-N-Load®, Match™, One Shot®, TAP®, TAP® Barrier™, TAP CQ®, TAP Precision®, Training™, TAP Urban®, and V-MAX™ are trademarks of Hornady Manufacturing.



223 REM

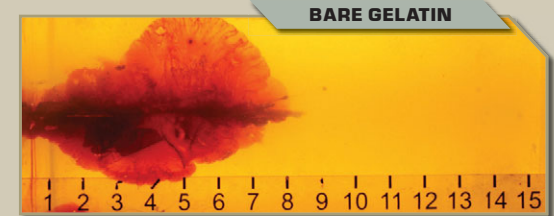
Hornady® 223 Rem TAP® loads are a unique offering to law enforcement professionals, combining reliable functioning with consistent performance, low muzzle signature, and exceptional accuracy in cannellured and crimped 35, 40, 55, 60 and 62 gr. bullets, and a 75 gr. offering match accuracy. These loads feature clean burning propellants and enhanced terminal performance, with rapid expansion and bullet fragmentation. Yet these highly effective bullets will penetrate soft body armor making them an excellent choice for patrol rifle programs and SWAT teams.

35gr. TAP NTX®

ITEM #83265

The Hornady® 223 Rem 35 gr. TAP NTX® features a core formed by a compression process. Its match grade jacket design provides maximum accuracy at all ranges. With its no-lead design, the NTX® bullet offers a completely fragmenting core that minimizes over-penetration. It should be noted that this bullet is not an ideal choice when barrier performance is required.

35 gr. TAP® NTX™ (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	3730	3146	2634	2175	1766	1419
Energy (ft lbs)	1236	879	616	420	277	179
Trajectory (inches)	-1.5	1.0	0.0	-6.1	-19.7	-44.6



BARE GELATIN

Bullet: 35 gr. TAP® NTX™
B.C.: .185 **S.D.:** .114
Muzzle Velocity: 3356 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 9"
Max. Cavity: 5.25"
Depth to Max. Cav.: 4.25"
Entry: 0"
Retained Weight: 0 gr.



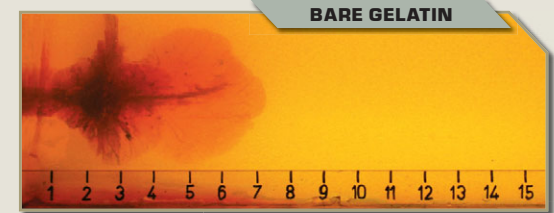
This bullet is designed to fragment entirely.

40gr. TAP URBAN®

ITEM #83256

The Hornady® 223 Rem 40 gr. TAP Urban® offers high velocity and reliable functioning even in shorter barreled firearms. It offers nearly instant expansion, complete fragmentation and little to no retained weight making it ideal for situations where collateral risk potential is high (active shooter, entry teams, correctional facilities etc). It should be noted that this bullet is not an ideal choice when barrier performance is required.

40 gr. TAP URBAN® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	3803	3251	2764	2325	1929	1580
Energy (ft lbs)	1284	938	678	480	331	222
Trajectory (inches)	-1.5	0.9	0.0	-5.5	-17.5	-39.0



BARE GELATIN

Bullet: 40 gr. TAP URBAN®
B.C.: .200 **S.D.:** .114
Muzzle Velocity: 3433 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 7"
Max. Cavity: 5.75"
Depth to Max. Cav.: 3"
Entry: 0.25"
Retained Weight: 0 gr.

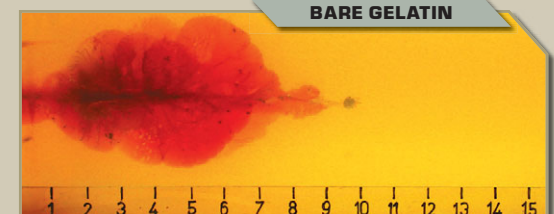


55gr. TAP URBAN®

ITEM #83276

The Hornady® 223 Rem 55 gr. TAP Urban® offers high velocity in shorter barreled firearms. It offers similar performance to the Hornady® 40 gr. TAP Urban® bullet with increases in penetration and retained weight. These factors make this bullet a good choice when collateral risk is high but the possibility of barrier penetration is also present.

55 gr. TAP URBAN® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	3229	2844	2491	2164	1863	1591
Energy (ft lbs)	1273	988	758	572	424	309
Trajectory (inches)	-1.5	1.4	0.0	-7.1	-21.6	-46.2



BARE GELATIN

Bullet: 55 gr. TAP URBAN®
B.C.: .255 **S.D.:** .157
Muzzle Velocity: 2981 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 10"
Max. Cavity: 4.5"
Depth to Max. Cav.: 5"
Entry: 0.5"
Retained Weight: 24.1 gr.



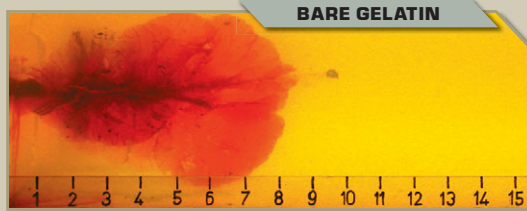
All 223 Rem ballistic gelatin shots were fired from 30 feet.

60gr. TAP URBAN®

ITEM #83286

The Hornady® 223 Rem 60 gr. TAP Urban® offers high velocity in 14.5" or longer barreled weapons. It is the lightest weight bullet that Hornady® recommends for 14.5" barreled firearms, and the heaviest weight acceptable for 1-12" twist weapons. The 60 gr. bullet offers performance similar to that of other polymer tipped Hornady® 223 bullets, but with slightly higher retained weight and deeper, more consistent penetration. This bullet's barrier performance is very similar to that of the 55 gr. TAP Urban®, but slightly enhanced.

60 gr. TAP URBAN® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	3124	2762	2427	2117	1830	1572
Energy (ft lbs)	1300	1016	785	597	446	329
Trajectory (inches)	-1.5	1.5	0.0	-7.5	-22.8	-48.5



BARE GELATIN

Bullet: 60 gr. TAP URBAN®
B.C.: .265 **S.D.:** .171
Muzzle Velocity: 2892 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 9.75"
Max. Cavity: 5.25"
Depth to Max. Cav.: 6.25"
Entry: 0"
Retained Weight: 20.2 gr.

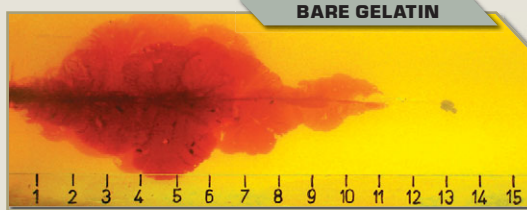


62gr. TAP® BARRIER™

ITEM #83285

TAP® Barrier™ turns cover into concealment. Hornady® originally developed this ammunition to meet the requirement for a high-speed, barrier penetrating bullet that could be used for nuclear power plant security. The design of the TAP® Barrier™ round allows the projectile to maintain its structural integrity while punching through barriers, yet still initiate expansion in soft tissue. For patrol carbine programs or any tactical situation where the need is for accuracy, barrier penetration, and terminal soft tissue performance, Hornady® TAP® Barrier™ ammunition is the ideal choice.

62 gr. TAP® BARRIER™ (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	3075	2723	2397	2094	1816	1563
Energy (ft lbs)	1301	1020	791	604	454	336
Trajectory (inches)	-1.5	1.6	0.0	-7.7	-23.2	-49.7



BARE GELATIN

Bullet: 62 gr. TAP® BARRIER™
B.C.: .264 **S.D.:** .171
Muzzle Velocity: 2740 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 13.75"
Max. Cavity: 4.5"
Depth to Max. Cav.: 4.75"
Entry: 0.25"
Retained Weight: 43.6 gr.



75gr. BTHP TAP®

ITEM #80265

This match accurate load is our heaviest TAP® offering in 223 Rem. It can be used in 14.5" barrel firearms that have either a 223 or 5.56 NATO chamber. The 75 gr. bullet offers deeper penetration than the 55 and 60 gr. TAP Urban® bullets yet still penetrates less than most law enforcement pistol bullets. This bullet penetrates barriers with minimal deflection and breakup thus delivering more energy to the target. Whether fired through a barrier or not, this bullet generates very large and consistent wound cavities, serving as an ideal choice for 223 Rem sniper applications.

75 gr. BTHP TAP® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2792	2564	2346	2139	1943	1759
Energy (ft lbs)	1298	1094	916	762	629	515
Trajectory (inches)	-1.5	1.9	0.0	-8.2	-24.1	-49.2



BARE GELATIN

Bullet: 75 gr. BTHP TAP®
B.C.: .395 **S.D.:** .214
Muzzle Velocity: 2542 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 12.5"
Max. Cavity: 5.25"
Depth to Max. Cav.: 5"
Entry: 1"
Retained Weight: 27.0 gr.



All 223 Rem ballistic gelatin shots were fired from 30 feet.





5.56 NATO

Many rifles chambered in 5.56 NATO are not realizing their full potential because they are shooting 223 Rem ammo. To get all the performance your 5.56 NATO can deliver, you need a Hornady® high octane 5.56 NATO load.

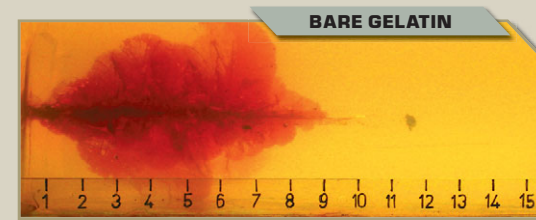
Your 5.56 NATO chambered rifle was designed to take advantage of the higher pressure of the 5.56 NATO cartridge — which translates to higher velocity, higher energy and harder-hitting performance.

62gr. TAP® BARRIER™

ITEM #8125N

The design of the 5.56 62 gr. TAP® Barrier™ bullet allows the projectile to maintain its structural integrity while punching through barriers, yet initiates expansion in soft tissue. Your 5.56 NATO chambered rifle was designed to take advantage of the higher pressure of the 5.56 NATO cartridge — which translates to higher velocity, higher energy and harder-hitting performance. ***NOTE: NOT for use in 223 REM chambered guns.**

62 gr. TAP® BARRIER™ (20" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	3078	2726	2400	2097	1818	1565
Energy (ft lbs)	1304	1022	793	605	455	337
Trajectory (inches)	-1.5	1.6	0.0	-7.7	-23.2	-49.6



BARE GELATIN

Bullet: 62 gr. TAP® BARRIER™
B.C.: .275 S.D.: .182
Muzzle Velocity: 2910 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 11.75"
Max. Cavity: 5.5"
Depth to Max. Cav.: 4.75"
Entry: 0.75"
Retained Weight: 45.1 gr.



75gr. BTHP T2 TAP®

ITEM #8126N

The T2 bullet profile is specifically designed to optimize function and feeding in M16/M4 variant guns. The cartridge's propellant technology is custom designed to enhance weapon operation, and delivers phenomenal temperature stability. The 75 gr BTHP T2 bullet is designed to deliver rapid incapacitation upon impact. ***NOTE: NOT for use in 223 REM chambered guns.**

75 gr. BTHP T2 TAP® (20" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2858	2625	2405	2195	1996	1812
Energy (ft lbs)	1360	1148	963	802	663	547
Trajectory (inches)	-1.5	1.8	0.0	-7.8	-22.8	-45.6



BARE GELATIN

Bullet: 75 gr. BTHP T2 TAP®
B.C.: .355 S.D.: .214
Muzzle Velocity: 2747 fps
Barrel: 16"
Twist Rate: 1 in 9"
Total Penetration: 10.5"
Max. Cavity: 5.5"
Depth to Max. Cav.: 5.5"
Entry: 0.75"
Retained Weight: 31.5 gr.



Ballistic Gelatin

10% ordnance gelatin is the standard media for comparing and defining bullet performance



All 5.56 NATO ballistic gelatin shots were fired from 30 feet.



223 REM 55gr. FMJ 223 REM 75gr. BTHP

ITEM #9754EL

ITEM #9760EL

Featuring our 55 gr. FMJ or 75 gr. BTHP bullet, Hornady® 223 Rem. TAP® Training™ ammunition compliments the current TAP® carbine duty rounds by delivering comparable, yet economical ammunition for law enforcement training. Utilizing efficient production processes and quality lacquer-coated steel cases, Hornady® Training™ ammunition delivers reliable functioning, accuracy, and point of aim / point of impact consistency when compared to comparable duty rounds.

NOTICE: These products are not intended for duty use.

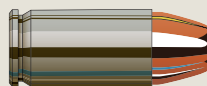
Velocity (fps) / Energy (ft/lb)					Trajectory Tables			
AMMO (24" test bbl)	MUZZLE	100 yds	200 yds	300 yds	MUZZLE	100 yds	200 yds	300 yds
223 Rem 55 gr. FMJ	3115/1185	2722/905	2362/681	2029/503	-2.4	1.2	0.0	-7.4
223 Rem 75 gr. BTHP	2765/1273	2538/1072	2321/897	2116/745	-2.4	1.5	0.0	-8.0

STEEL MATCH™ AMMUNITION

Uncompromising accuracy and performance in a new economical alternative from Hornady® — Steel Match™ rifle and pistol ammunition. Featuring Hornady® Match™ rifle bullets or HAP® (Hornady Action Pistol) handgun bullets, Steel Match™ ammunition is loaded at the Hornady® factory with optimized propellant for each load that provides consistency and the highest levels of accuracy. Utilizing polymer coated steel cartridge cases, and non-corrosive berdan primers, Steel Match™ ammunition delivers Hornady® quality and performance, but with an economical price (saves as much as 40% when compared to brass case match ammo).

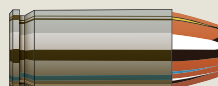
9MM LUGER 125gr. HAP

ITEM #90275



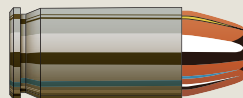
40 S&W 180gr. HAP

ITEM #91362



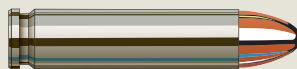
45 AUTO 230gr. HAP

ITEM #90985



30 CARBINE 110gr. FMJ

ITEM #8103



308 WIN 155gr. BTHP

ITEM #80926



NOTICE: These products are not intended for duty use.

TRAINING™ AMMUNITION

Hornady® Training™ ammunition provides a cost effective alternative to the standard TAP® loads for tactical training. Loaded with Hornady® bullets and proven propellants coupled with a high quality lacquer-coated or polymer steel case and berdan primer, Hornady® Training™ ammunition is designed to deliver point of aim / point of impact consistency when compared to comparable TAP® offerings. Hornady® Training™ Ammunition - an economical, high quality solution for Law Enforcement training.





308 WIN

Hornady® 308 Win TAP® ammunition is specifically developed for the police marksman who requires increased bullet weight and barrier penetration of the 308 Win cartridge. Hornady® Match Grade TAP® 308 Win loads offer reliable functioning and consistent performance that delivers when it counts. With a low muzzle signature and superior terminal performance, Hornady 308 Win TAP® loads provide a low risk of over-penetration due to its enhanced expansion characteristics after target engagement. The polymer tipped variants have high ballistic coefficients, making them an excellent choice for SWAT precision marksmen.

110gr. TAP URBAN®

ITEM #80896

This cartridge provides the police marksman a unique bullet that demonstrates rapid expansion, fragmentation and low retained weight. The 110 gr. TAP Urban® bullet offers the least penetration in ballistic gelatin and lower felt recoil as compared to heavier TAP® loads. The 110 gr. bullet demonstrates similar penetration to the 223 Rem 75 gr. BTHP bullet, but with substantially more temporary and permanent cavity and fragmentation, proving itself an excellent choice for urban sniping. NOTE: A superb choice for the M14 and its variants.

110 gr. TAP URBAN® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	3187	2850	2537	2246	1973	1723
Energy (ft lbs)	2480	1984	1572	1231	951	725
Trajectory (inches)	-1.5	1.4	0.0	-6.8	-20.6	-43.3



BARE GELATIN

Bullet: 110 gr. TAP URBAN®
B.C.: .290 **S.D.:** .116
Muzzle Velocity: 2998 fps
Barrel: 20"
Twist Rate: 1 in 12"
Total Penetration: 10"
Max. Cavity: 6"
Depth to Max. Cav.: 4.5"
Entry: 0"
Retained Weight: 5.6 gr.



This bullet is designed to fragment entirely.

155gr. A-MAX® TAP PRECISION®

ITEM #80925

The 155 gr. A-MAX® TAP Precision® cartridge offers match accuracy with a high ballistic coefficient providing superior long-range performance. This load demonstrates expansion and fragmentation similar to the 110 gr. load, but with a noticeable increase in penetration and retained bullet weight. This bullet penetrates glass with minimal deflection and exhibits excellent expansion and fragmentation characteristics.

155 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2784	2576	2377	2187	2007	1835
Energy (ft lbs)	2666	2283	1945	1647	1385	1159
Trajectory (inches)	-1.5	1.9	0.0	-8.0	-23.4	-47.3



BARE GELATIN

Bullet: 155 gr. A-MAX®
B.C.: .435 **S.D.:** .233
Muzzle Velocity: 2637 fps
Barrel: 20"
Twist Rate: 1 in 12"
Total Penetration: 17.5"
Max. Cavity: 6.5"
Depth to Max. Cav.: 5.5"
Entry: 0"
Retained Weight: 106.3 gr.

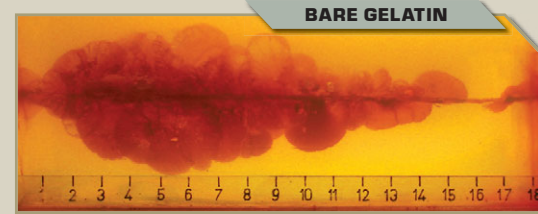


165gr. GMX® TAP® BARRIER™

ITEM #80985

TAP® Barrier™ turns cover into concealment. The 165 gr. GMX® TAP® Barrier™ is constructed of a monolithic material and has a double cannellured design to reduce fouling and pressure. The Gilding Metal eXpanding (GMX®) round penetrates auto glass, sheet metal and other conventional barriers with exceptional weight retention while still delivering superior terminal performance on the other side. **NOTE: Maximum penetration - Not for use where over-penetration is a concern.**

165 gr. GMX® TAP® BARRIER™ (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2749	2548	2356	2172	1997	1830
Energy (ft lbs)	2769	2379	2034	1729	1461	1227
Trajectory (inches)	-1.5	1.9	0.0	-8.2	-23.8	-48.1



BARE GELATIN

Bullet: 165 gr. GMX® TAP® BARRIER™
B.C.: .447 **S.D.:** .248
Muzzle Velocity: 2627 fps
Barrel: 20"
Twist Rate: 1 in 12"
Total Penetration: 20+"
Max. Cavity: 5"
Depth to Max. Cav.: 5.25"
Entry: 0.5"
Retained Weight: 164.5 gr.

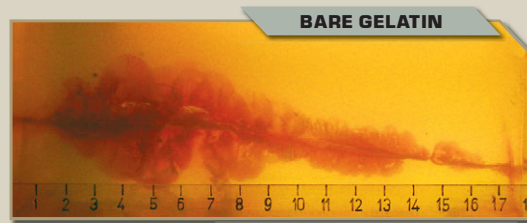


All 308 Win ballistic gelatin shots were fired from 100 yards.

165gr. INTERBOND® TAP® BARRIER™ ITEM #80995

TAP® Barrier™ turns cover into concealment. Unique tactical situations demand ammunition with unique qualities — and Hornady® 308 WIN TAP® Barrier™ ammunition is one of the most specialized cartridges ever developed. The 165 gr. 308 Win TAP® Barrier™ round penetrates auto glass, sheet metal and any other conventional barriers while still delivering superior terminal performance on the opposite side. It features a tough bonded core and jacket that allows it to reliably penetrate barriers while delivering devastating stopping power with virtually no fragmentation.

165 gr. IB® TAP® Barrier™ (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2840	2635	2439	2252	2079	1902
Energy (ft lbs)	2955	2544	2180	1858	1574	1325
Trajectory (inches)	-1.5	1.8	0.0	-7.6	-22.1	-44.7



BARE GELATIN

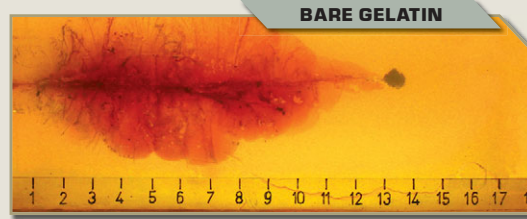
Bullet: 165 gr. TAP® Barrier™
B.C.: .447 **S.D.:** .248
Muzzle Velocity: 2661 fps
Barrel: 20"
Twist Rate: 1 in 12"
Total Penetration: 20+"
Max. Cavity: 5.25"
Depth to Max. Cav.: 6.5"
Entry: 0.5"
Retained Weight: 155.2 gr.



168gr. A-MAX® TAP PRECISION® ITEM #80965

The 168 gr. A-MAX® bullet is a traditional match grade bullet with the performance advantages of a polymer tip. This match grade bullet demonstrates an increase in penetration and retained weight over the 155 gr. A-MAX® bullet. Barrier performance is exemplary and this load demonstrates controlled and impressive soft tissue expansion providing the ability to stop a target "right NOW!" The Hornady® 168 gr. A-MAX® TAP Precision® offers industry leading all-around performance for law enforcement precision marksmen.

168 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2676	2489	2311	2139	1976	1820
Energy (ft lbs)	2670	2311	1992	1707	1456	1235
Trajectory (inches)	-1.5	2.1	0.0	-8.6	-24.8	-49.8



BARE GELATIN

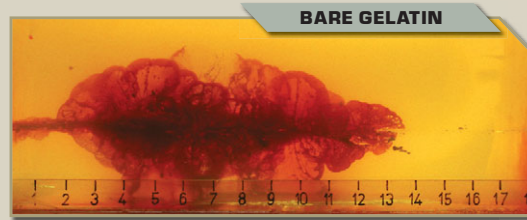
Bullet: 168 gr. A-MAX®
B.C.: .475 **S.D.:** .253
Muzzle Velocity: 2537 fps
Barrel: 20"
Twist Rate: 1 in 12"
Total Penetration: 14.25"
Max. Cavity: 6.5"
Depth to Max. Cav.: 7"
Entry: 0.5"
Retained Weight: 120.8 gr.



168gr. BTHP TAP PRECISION® ITEM #80975

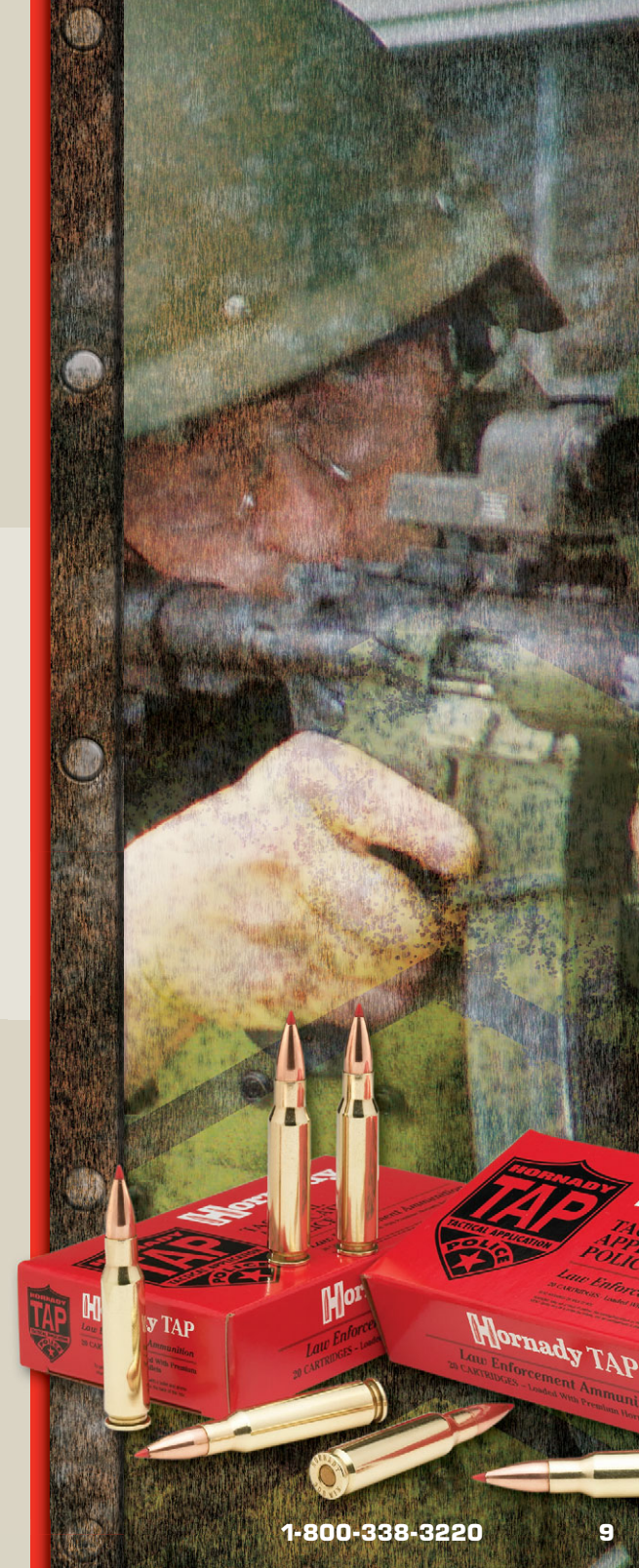
The 168 gr. BTHP TAP Precision® load is a traditional match grade 308 Win offering that delivers industry leading accuracy and performance. This match grade cartridge demonstrates an increase in penetration and retained weight and delivers a large wound cavity for maximum stopping power. The Hornady® 308 Win 168 gr. BTHP TAP Precision® offering is an extremely versatile tactical load.

168 gr. BTHP TAP PRECISION® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2668	2472	2284	2105	1934	1772
Energy (ft lbs)	2655	2279	1946	1653	1395	1171
Trajectory (inches)	-1.5	2.1	0.0	-8.8	-25.4	-51.4



BARE GELATIN

Bullet: 168 gr. BTHP
B.C.: .450 **S.D.:** .253
Muzzle Velocity: 2520 fps
Barrel: 20"
Twist Rate: 1 in 12"
Total Penetration: 18.5"
Max. Cavity: 6"
Depth to Max. Cav.: 7"
Entry: 2"
Retained Weight: 106.8 gr.





HANDGUN AMMUNITION

The TAP CQ® (Close Quarters) line of ammunition is specifically designed to offer law enforcement the best possible performance in duty pistol ammunition. TAP CQ® bullets perform within the optimum range of penetration and expansion for law enforcement tactical applications, giving 11-17" of penetration in bare ordnance gelatin. The ammunition has also been designed with propellants that are clean-burning and efficient with a minimum amount of residue and signature flash.



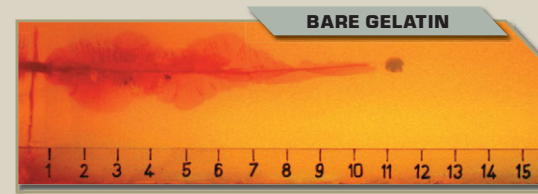
9MM LUGER 124gr. TAP CQ®

ITEM #90245

This round is the lightest weight bullet that offers a solid range of performance for the 9mm. It is loaded to a nominal velocity of 1,110 fps in a SAAMI standard test barrel.

9MM Luger 124 gr. TAP CQ®

Barrel Length: 4"	muzzle	50 yds	100 yds
Velocity (fps)	1110	1030	971
Energy (ft lbs)	339	292	259



Bullet: 124 gr. TAP CQ®
B.C.: .165 **S.D.:** .141
Muzzle Velocity: 1112 fps
Firearm: Beretta 92FS
Total Penetration: 11.5"

Max. Cavity: 2.25"
Depth to Max. Cav.: 2.25"
Entry: 0.5"
Retained Weight: 122.3 gr.

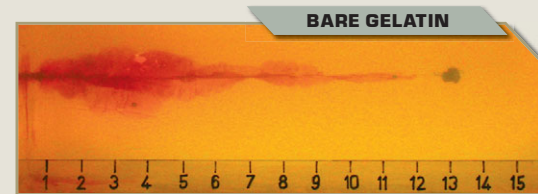
9MM LUGER 147gr. TAP CQ®

ITEM #90285

This round offers more flexibility than the 124 gr., particularly on barriers. Because of the greater bullet weight, it offers superior terminal performance in penetration/expansion and associated stopping power. It is loaded to a nominal 975 fps in a SAAMI standard test barrel.

9MM Luger 147 gr. TAP CQ®

Barrel Length: 4"	muzzle	50 yds	100 yds
Velocity (fps)	975	935	899
Energy (ft lbs)	310	285	264



Bullet: 147 gr. TAP CQ®
B.C.: .212 **S.D.:** .167
Muzzle Velocity: 931 fps
Firearm: Beretta 92FS
Total Penetration: 14"

Max. Cavity: 2"
Depth to Max. Cav.: 3.5"
Entry: 0.5"
Retained Weight: 142.7 gr.

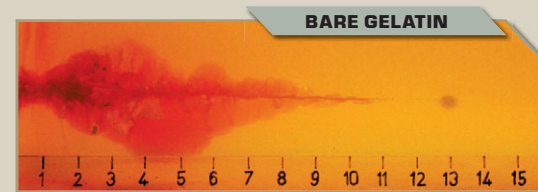
357 SIG 124gr. TAP CQ®

ITEM #91305

This round is a high velocity load that offers devastating terminal performance with substantial penetration. It also offers good performance on barriers.

357 SIG 124 gr. TAP CQ®

Barrel Length: 4"	muzzle	50 yds	100 yds
Velocity (fps)	1350	1208	1108
Energy (ft lbs)	502	405	338



Bullet: 124 gr. TAP CQ®
B.C.: .165 **S.D.:** .141
Muzzle Velocity: 1301 fps
Firearm: Sig Sauer P229
Total Penetration: 13"

Max. Cavity: 3.75"
Depth to Max. Cav.: 3.75"
Entry: 0.25"
Retained Weight: 110.0 gr.

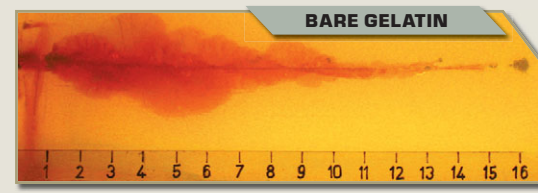
357 SIG 147gr. TAP CQ®

ITEM #91315

This round offers all-around exceptional performance in a handgun. It has deep penetration as well as dramatic terminal performance. It also offers very good performance on barriers.

357 SIG 147 gr. TAP CQ®

Barrel Length: 4"	muzzle	50 yds	100 yds
Velocity (fps)	1225	1138	1072
Energy (ft lbs)	490	422	375



Bullet: 147 gr. TAP CQ®
B.C.: .212 **S.D.:** .167
Muzzle Velocity: 1186 fps
Firearm: Sig Sauer P229
Total Penetration: 16.5"

Max. Cavity: 3.5"
Depth to Max. Cav.: 4.75"
Entry: 0.25"
Retained Weight: 138.9 gr.

In accordance with FBI protocol, all TAP CQ® ballistic gelatin shots were fired from 10 feet.

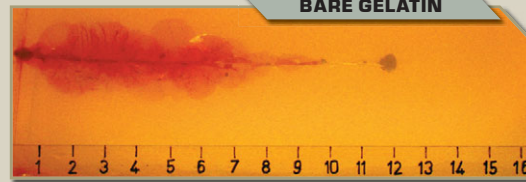
40 S&W 155gr. TAP CQ®

This round offers a lower recoil load for the 40 S&W, and terminal performance far exceeding a 9mm. It is loaded to a nominal velocity of 1,180 fps in a SAAMI standard test barrel.

ITEM #91325

40 S&W 155 gr. TAP CQ®

Barrel Length: 4"	muzzle	50 yds	100 yds
Velocity (fps)	1180	1061	980
Energy (ft lbs)	479	387	331



Bullet: 155 gr. TAP CQ®
B.C.: .137 **S.D.:** .138
Muzzle Velocity: 1121 fps
Firearm: Glock 22
Total Penetration: 12.25"

Max. Cavity: 2.75"
Depth to Max. Cav.: 3"
Entry: 0.25"
Retained Weight: 146.9 gr.

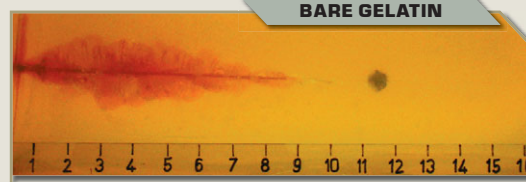
40 S&W 180gr. TAP CQ®

This round is the best-performing round in the line and offers truly exceptional performance on all types of targets, including phenomenal accuracy and impressive terminal performance. It is loaded to a nominal velocity of 950 fps in a SAAMI standard test barrel.

ITEM #91365

40 S&W 180 gr. TAP CQ®

Barrel Length: 4"	muzzle	50 yds	100 yds
Velocity (fps)	950	903	862
Energy (ft lbs)	361	326	297



Bullet: 180 gr. TAP CQ®
B.C.: .164 **S.D.:** .161
Muzzle Velocity: 959 fps
Firearm: Glock 22
Total Penetration: 11.5"

Max. Cavity: 2.25"
Depth to Max. Cav.: 3.5"
Entry: 0.5"
Retained Weight: 179.4 gr.

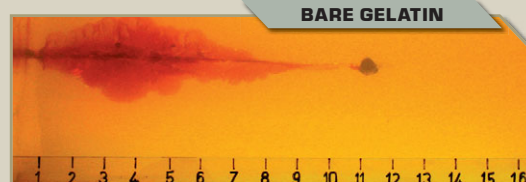
45 AUTO+P 200gr. TAP CQ®

This lighter 45 Auto + P offers very good terminal performance in most situations. The round is loaded to a nominal velocity of 1055 fps in a SAAMI standard test barrel.

ITEM #91125

45 AUTO+P 200 gr. TAP CQ®

Barrel Length: 5"	muzzle	50 yds	100 yds
Velocity (fps)	1055	982	926
Energy (ft lbs)	494	428	380



Bullet: 200 gr. TAP CQ®
B.C.: .151 **S.D.:** .140
Muzzle Velocity: 929 fps
Firearm: Sig Sauer P220
Total Penetration: 11.75"

Max. Cavity: 3"
Depth to Max. Cav.: 3.25"
Entry: 0.5"
Retained Weight: 190.3 gr.

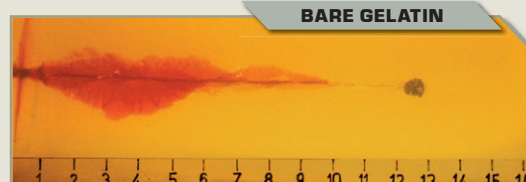
45 AUTO+P 230gr. TAP CQ®

This round offers exceptional accuracy and excellent soft tissue performance. It is loaded to a nominal velocity of 950 fps in a SAAMI standard test barrel.

ITEM #90955

45 AUTO+P 230 gr. TAP CQ®

Barrel Length: 5"	muzzle	50 yds	100 yds
Velocity (fps)	950	908	872
Energy (ft lbs)	461	421	388



Bullet: 230 gr. TAP CQ®
B.C.: .188 **S.D.:** .162
Muzzle Velocity: 796 fps
Firearm: Sig Sauer P220
Total Penetration: 13.25"

Max. Cavity: 2.25"
Depth to Max. Cav.: 3.25"
Entry: 0.5"
Retained Weight: 229.3 gr.



CRITICAL DEFENSE

Personal defense ammunition is redefined with Hornady® Critical Defense® ammunition. You may have never thought about the effects of fabric and clothing on the performance of personal defense ammo. But clothing — especially heavy clothing — has a lot to do with how the bullet expands upon impact.

It's a dirty little secret, but conventional hollow point bullets often experience tip clogging as the bullet passes through light and heavy clothing, which diminishes expansion and causes unreliable bullet performance.

Hornady® Critical Defense® ammo eliminates clogging with the use of the patented FTX® (Flex Tip eXpanding) bullet. Upon entering soft tissue, the tip swells and imparts equal pressure across the entire circumference of the bullet cavity. The result is unrivaled bullet expansion and performance every single time!



9MM LUGER 115gr. FTX® CRITICAL DEFENSE®

ITEM #90250



Factory, 4" Test bbl	B.C.: .129 S.D.: .130		
115 gr. FTX®	muzzle	50 yds	100 yds
Velocity (fps)	1140	1030	954
Energy (ft lbs)	332	271	232



357 MAG 125gr. FTX® CRITICAL DEFENSE®

ITEM #90500



Factory, 8" Vented Test bbl	B.C.: .150 S.D.: .140		
125 gr. FTX®	muzzle	50 yds	100 yds
Velocity (fps)	1500	1301	1147
Energy (ft lbs)	624	470	365

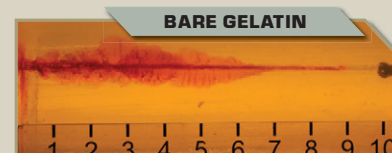


380 AUTO 90gr. FTX® CRITICAL DEFENSE®

ITEM #90080



Factory, 4" Test bbl	B.C.: .099 S.D.: .102		
90 gr. FTX®	muzzle	50 yds	100 yds
Velocity (fps)	1000	910	841
Energy (ft lbs)	200	165	141



38 SPL 110gr. FTX® CRITICAL DEFENSE®

ITEM #90310



Factory, 4" Test bbl	B.C.: .131 S.D.: .123		
110 gr. FTX®	muzzle	50 yds	100 yds
Velocity (fps)	1010	940	883
Energy (ft lbs)	249	216	191

38 SPL+P 110gr. FTX® CRITICAL DEFENSE®

ITEM #90311



Factory, 4" Test bbl	B.C.: .131 S.D.: .123		
110 gr. FTX®	muzzle	50 yds	100 yds
Velocity (fps)	1090	997	930
Energy (ft lbs)	290	243	211

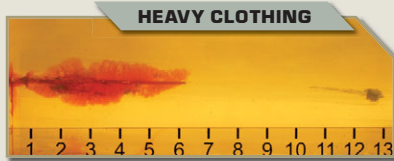
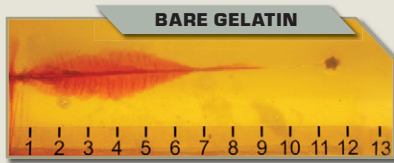
40 S&W 165gr. FTX® CRITICAL DEFENSE®

ITEM #91340



Factory, 3" Test bbl	B.C.: .145 S.D.: .147		
165 gr. FTX®	muzzle	50 yds	100 yds
Velocity (fps)	1175	1066	990
Energy (ft lbs)	506	416	359

All Critical Defense® ballistic gelatin shots were fired from 5 ft.



NEW!

44 SPL 165gr. FTX[®]
CRITICAL DEFENSE[®]

ITEM #90700



Factory, 2.5" Vented Test bbl	B.C.: .125 S.D.: .128		
165 gr. FTX [®]	muzzle	50 yds	100 yds
Velocity (fps)	900	848	802
Trajectory (ft lbs)	297	263	235



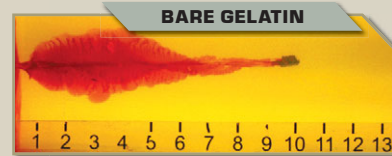
NEW!

45 COLT 185gr. FTX[®]
CRITICAL DEFENSE[®]

ITEM #92790



Factory, 3" Vented Test bbl	B.C.: .140 S.D.: .130		
185 gr. FTX [®]	muzzle	50 yds	100 yds
Velocity (fps)	910	862	819
Energy (ft lbs)	340	305	275

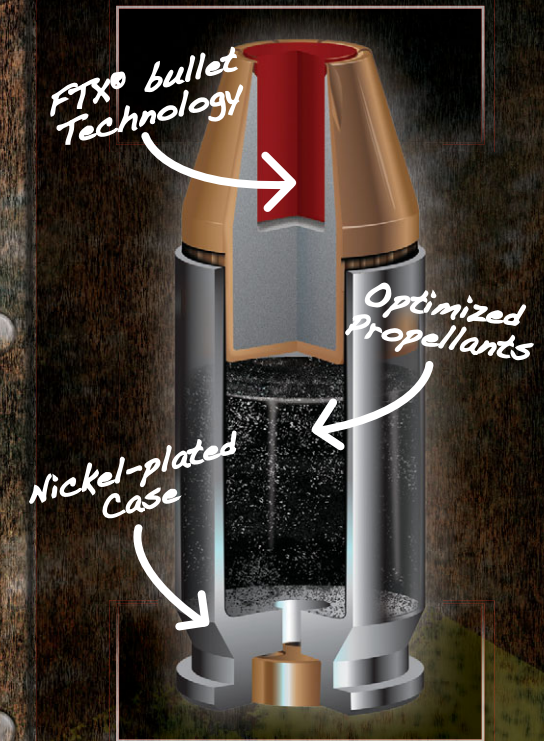
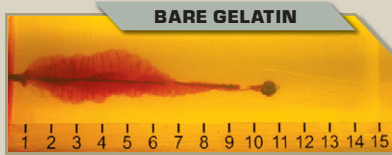


45 AUTO 185gr. FTX[®]
CRITICAL DEFENSE[®]

ITEM #90900



Factory, 3" Test bbl	B.C.: .140 S.D.: .130		
185 gr. FTX [®]	muzzle	50 yds	100 yds
Velocity (fps)	900	853	811
Energy (ft lbs)	333	299	270



Flex Tip[®] technology guarantees 100% reliable performance in every situation.



Conventional hollow point bullets perform unreliably when encountering heavy fabric or layers of clothing.

RIFLE AMMUNITION

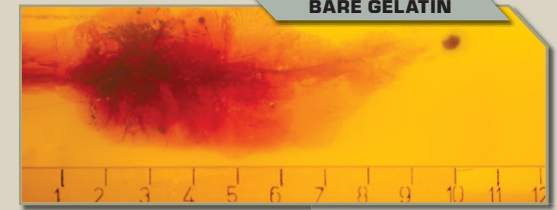
"Ten bullets through one hole," was the philosophy of Joyce Hornady, the company's founder. This great idea of accuracy and perfection has continued from the first bullet made more than half a century ago, right through today. All Hornady® ammunition is built to provide shooters with the HIGHEST performance available on the market today – period! We produce only the highest quality ammunition because our technicians and ballisticians are shooters too, and they, like our customers, are only satisfied with the very best.

5.45x39 60gr. V-MAX™

ITEM #8124

Originally chambered in the AK-74, an updated version of the AK-47, the 5.45 x 39mm is gaining in popularity in the United States. With an influx of surplus guns and some newly manufactured domestic guns, the demand for quality ammunition keeps increasing. The Hornady® 5.45 x 39mm load will feature aqueous coated steel cases, low flash, clean burning propellants and a 60 gr. V-MAX™ bullet built specifically for the 5.45 x 39mm. The 60 gr. V-MAX® bullet will deliver the performance you've come to trust from all Hornady® bullets.

60 gr. V-MAX™ (16" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2810	2495	2201	1927	1677	1454
Energy (ft lbs)	1052	829	645	495	374	282
Trajectory (inches)	-1.5	2.1	0.0	-9.3	-28.0	-59.1



Bullet: 60 gr. V-MAX™
B.C.: .285 **S.D.:** .171
Muzzle Velocity: 2863 fps
Barrel: 16"
Total Penetration: 10"
Max. Cavity: 5.25"
Depth to Max. Cav.: 4.75"
Entry: 0"
Retained Weight: 23 gr.

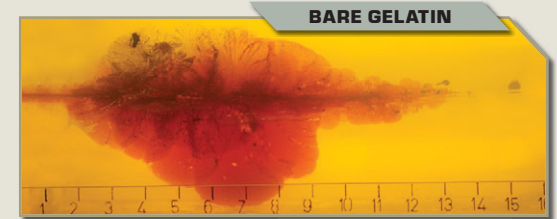


6.8MM SPC 110gr. BTHP

ITEM #8146

The 6.8mm SPC is one of the hottest new cartridges on the market. Developed at the request of the U.S. Special Forces to be more effective than the 5.56 NATO, the 6.8 SPC is an ideal AR-15 platform-compatible cartridge for rural law enforcement operations, sheriff departments, game wardens, border patrol, etc.

110 gr. BTHP (16" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2570	2332	2106	1893	1695	1514
Energy (ft lbs)	1613	1328	1083	875	702	560
Trajectory (inches)	-1.5	2.5	0.0	-10.3	-30.4	-62.6



Bullet: 110 gr. BTHP
B.C.: .360 **S.D.:** .205
Muzzle Velocity: 2443 fps
Barrel: 16"
Total Penetration: 15"
Max. Temporary Cavity: 6.5"
Depth to Max. Cavity: 5.25"
Entry: .5"
Retained Weight: 69 gr.



6.8MM SPC 110gr. V-MAX™

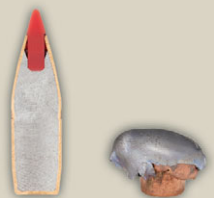
ITEM #8346

The Hornady® 6.8 SPC 110 gr. V-MAX™ load features a high quality brass case, purpose built propellants and our 110 gr. V-MAX™ bullet which delivers rapid expansion upon impact and creates wound cavities that incapacitate instantly. V-MAX® bullets are known for their accuracy as well, built using the same precision manufacturing that goes into our Match bullets, the Hornady® 110 gr. V-MAX™ allows the 6.8 SPC to realize its full potential in every way.

110 gr. V-MAX™ (16" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2570	2338	2118	1910	1716	1538
Energy (ft lbs)	1613	1335	1095	891	719	577
Trajectory (inches)	-1.5	2.4	0.0	-10.2	-30.0	-61.6



Bullet: 110 gr. V-MAX™
B.C.: .370 **S.D.:** .205
Muzzle Velocity: 2540 fps
Barrel: 16"
Total Penetration: 16.75"
Max. Temporary Cavity: 6.5"
Depth to Max. Cavity: 5.75"
Entry: .5"
Retained Weight: 73 gr.

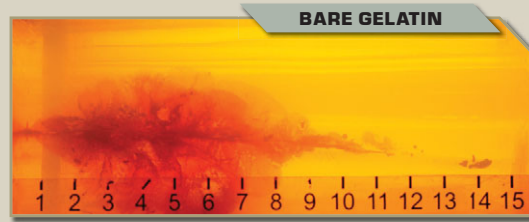


7.62x39 123gr. V-MAX™

ITEM #8078

The Hornady® 7.62x39 123 gr. V-MAX™ features a high-quality, lacquer-coated steel case with a non-corrosive berdan primer. Each cartridge is loaded with Hornady V-MAX™ bullets and carefully chosen propellants for absolute maximum performance.

123 gr. V-MAX™ (20" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2350	2040	1755	1502	1289	1129
Energy (ft lbs)	1508	1136	841	616	454	348
Trajectory (inches)	-1.5	3.5	0.0	-14.8	-45.2	-96.6



Bullet: 123 gr. V-MAX™
B.C.: .260 **S.D.:** .183
Muzzle Velocity: 2218 fps
Barrel: 18.5"
Total Penetration: 15"
Max. Temporary Cavity: 5.25"
Depth to Max. Cavity: 5"
Entry: .5"
Retained Weight: 77.2 gr.

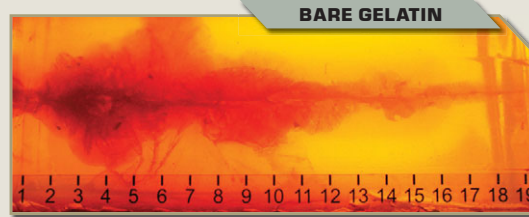


450 BUSHMASTER 250gr. FTX®

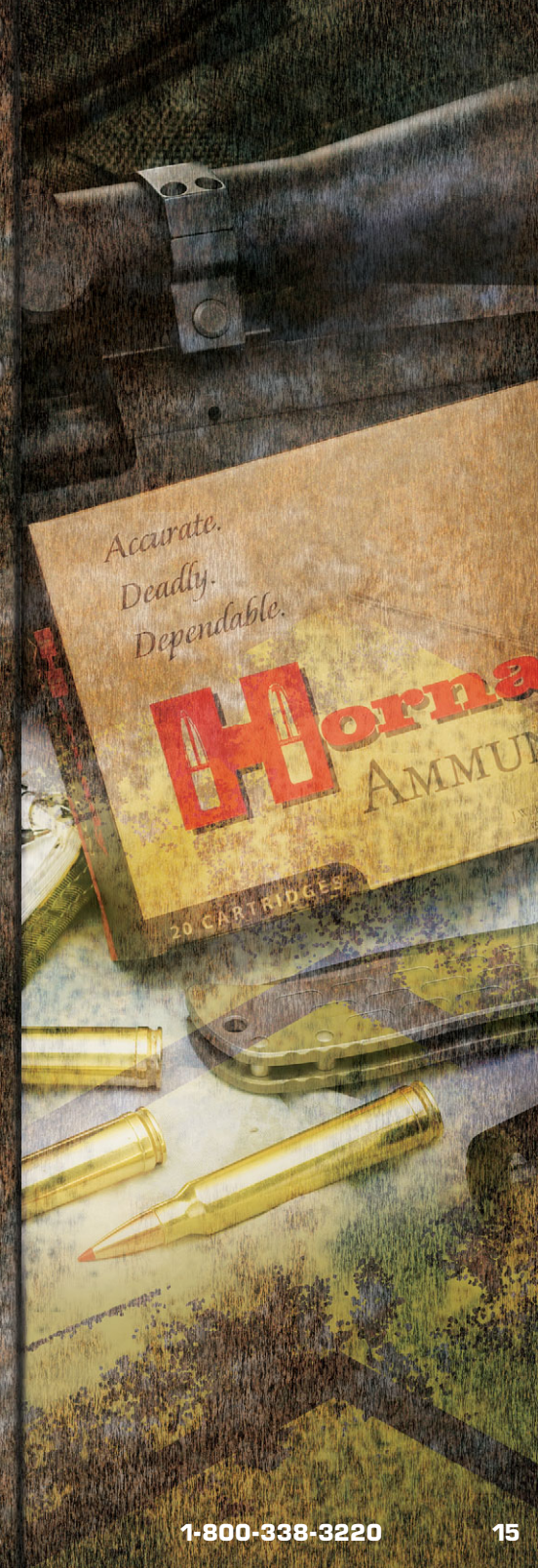
ITEM #82244

Nicknamed "The Thumper," the 450 Bushmaster brings big bore power and performance to the most popular semi-automatic rifle in America: the AR-15. Loaded with FTX® (Flex Tip eXpanding) bullets, the 450 Bushmaster offers tremendous stopping power and unparalleled terminal performance across a wide velocity range.

250 gr. FTX® (20" test bbl)	muzzle	100 yds	200 yds	300 yds
Velocity (fps)	2200	1840	1524	1268
Energy (ft lbs)	2686	1879	1289	893
Trajectory (inches)	-2.0	2.5	-3.4	-24.5



Bullet: 250 gr. FTX®
B.C.: .210 **S.D.:** .175
Muzzle Velocity: 2142 fps
Barrel: 16.5"
Total Penetration: 20.5"
Max. Temporary Cavity: 6.5"
Depth to Max. Cavity: 6.5"
Entry: .5"
Retained Weight: 155.9 gr.



MATCH AMMUNITION

The best shooters in the world choose Hornady® bullets and ammunition for X-Ring accuracy in both short and long range competitions. Shooters who refuse to settle for anything less than world-record-setting perfection will find what they're looking for in Hornady® Match™ ammunition.


All Hornady® Match™ and A-MAX® bullets now feature revolutionary new Advanced Manufacturing Process/AMP™ bullet jackets. Developed by Hornady® technicians, these new bullet jackets are a technological advancement in design, tooling and manufacturing that combine to produce the most consistently concentric bullet jackets available. These new AMP™ jackets are the foundation for exceptional bullet accuracy and have virtually zero tolerance for concentricity.



223 REM 75gr. BTHP
Ballistic Coefficient: .395 Sectional Density: .214
ITEM #8026

223 REM 75gr. BTHP Superformance™
Ballistic Coefficient: .395 Sectional Density: .214
ITEM #80264

5.56 NATO 75gr. BTHP Superformance™
Ballistic Coefficient: .395 Sectional Density: .214
ITEM #81264



308 WIN 155gr. A-MAX®
Ballistic Coefficient: .435 Sectional Density: .233
ITEM #8095PM



308 WIN 155gr. OTM
Ballistic Coefficient: .405 Sectional Density: .233
ITEM #8087N



308 WIN 168gr. A-MAX®
Ballistic Coefficient: .475 Sectional Density: .253
ITEM #8096

308 WIN 168gr. A-MAX® Superformance™
Ballistic Coefficient: .475 Sectional Density: .253
ITEM #80964



308 WIN 168gr. BTHP
Ballistic Coefficient: .435 Sectional Density: .253
ITEM #8097

308 WIN 178gr. BTHP Superformance™
Ballistic Coefficient: .530 Sectional Density: .268
ITEM #8077

75 gr. BTHP (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2790	2561	2344	2137	1941	1757
Energy (ft lbs)	1296	1092	915	760	627	514
Trajectory (inches)	-1.5	1.9	0.0	-8.3	-24.1	-49.3

75 gr. BTHP (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2930	2694	2470	2257	2055	1863
Energy (ft lbs)	1429	1209	1016	848	703	578
Trajectory (inches)	-2.5	1.1	0.0	-6.9	-20.6	-42.5

75 gr. BTHP (20" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2910	2675	2452	2240	2039	1848
Energy (ft lbs)	1410	1192	1001	836	692	569
Trajectory (inches)	-2.5	1.2	0.0	-7.0	-20.9	-43.2

155 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2860	2649	2447	2254	2070	1895
Energy (ft lbs)	2815	2414	2060	1748	1474	1236
Trajectory (inches)	-1.5	1.7	0.0	-7.6	-22.0	-44.5

155 gr. Open Tip Match (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2800	2576	2364	2161	1968	1786
Energy (ft lbs)	2698	2284	1922	1607	1333	1098
Trajectory (inches)	-1.5	1.9	0.0	-8.1	-23.7	-48.3

168 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2700	2513	2333	2161	1996	1839
Energy (ft lbs)	2719	2356	2030	1742	1486	1261
Trajectory (inches)	-1.5	2.0	0.0	-8.4	-24.3	-48.9

168 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2840	2647	2462	2284	2114	1951
Energy (ft lbs)	3008	2613	2261	1946	1667	1420
Trajectory (inches)	-1.5	1.7	0.0	-7.5	-21.6	-43.6

168 gr. BTHP (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2700	2503	2314	2133	1960	1797
Energy (ft lbs)	2719	2336	1997	1697	1433	1204
Trajectory (inches)	-1.5	2.0	0.0	-8.5	-24.7	-50.0

178 gr. BTHP (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2760	2586	2419	2259	2104	1955
Energy (ft lbs)	3010	2644	2313	2016	1749	1511
Trajectory (inches)	-1.5	1.9	0.0	-7.8	-22.4	-44.9

6.5 CREEDMOOR 120gr. A-MAX®

Ballistic Coefficient: .470 Sectional Density: .246
ITEM #81492

6.5 CREEDMOOR 140gr. A-MAX®

Ballistic Coefficient: .585 Sectional Density: .287
ITEM #81494

6.5 GRENDL® 123gr. A-MAX®

Ballistic Coefficient: .510 Sectional Density: .252
ITEM #8150

30-06 168gr. A-MAX® M1 GARAND

Ballistic Coefficient: .475 Sectional Density: .253
ITEM #81170

300 WIN MAG 178gr. A-MAX®

Ballistic Coefficient: .495 Sectional Density: .268
ITEM #8203

338 LAPUA 250gr. BTHP

Ballistic Coefficient: .670 Sectional Density: .313
ITEM #8230

338 LAPUA 285gr. BTHP

Ballistic Coefficient: .740 Sectional Density: .356
ITEM #82306

50 BMG 750gr. A-MAX®

Ballistic Coefficient: 1.050 Sectional Density: .412
ITEM #8270

120 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2910	2712	2522	2340	2166	1999
Energy (ft lbs)	2254	1959	1695	1459	1250	1065
Trajectory (inches)	-1.5	1.6	0.0	-7.1	-20.5	-41.4

140 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2710	2557	2409	2266	2128	1995
Energy (ft lbs)	2283	2032	1804	1596	1408	1237
Trajectory (inches)	-1.5	1.9	0.0	-7.9	-22.6	-45.0

123 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2620	2435	2257	2087	1925	1770
Energy (ft lbs)	1875	1619	1392	1190	1012	856
Trajectory (inches)	-1.5	2.2	0.0	-9.0	-26.0	-52.5

168 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2710	2522	2342	2170	2004	1847
Energy (ft lbs)	2739	2373	2046	1756	1499	1272
Trajectory (inches)	-1.5	2.0	0.0	-8.3	-24.1	-48.5

178 gr. A-MAX® (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yd	500 yds
Velocity (fps)	2960	2770	2587	2412	2243	2081
Energy (ft lbs)	3462	3031	2645	2298	1988	1712
Trajectory (inches)	-1.5	1.5	0.0	-6.7	-19.4	-39.1

250 gr. BTHP (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2860	2722	2587	2457	2331	2208
Energy (ft lbs)	4540	4111	3716	3351	3015	2706
Trajectory (inches)	-1.5	1.6	0.0	-6.8	-19.3	-38.3

285 gr. BTHP (24" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2745	2623	2504	2388	2275	2165
Energy (ft lbs)	4768	4352	3966	3608	3275	2966
Trajectory (inches)	-1.5	1.8	0.0	-7.3	-20.8	-40.9

750 gr. A-MAX® (36" test bbl)	muzzle	100 yds	200 yds	300 yds	400 yds	500 yds
Velocity (fps)	2820	2728	2637	2549	2462	2376
Energy (ft lbs)	13241	12388	11580	10815	10090	9403
Trajectory (inches)	-1.5	1.6	0.0	-6.6	-18.5	-36.2

HORNADY® BTHP BULLETS

- Profile delivers low drag and flat trajectories
- High ballistic coefficient
- Swaged lead core provides uniformity and consistency
- Unmatched accuracy at long distances



BTHP

HORNADY® A-MAX® BULLETS

- Ultra-low drag tip
- Aerodynamic secant ogive delivers flat trajectories
- Excellent uniformity and concentricity
- Delivers consistent accuracy at all ranges
- Jacket precision drawn for unequalled consistency



A-MAX®

SUPERFORMANCE MATCH AMMUNITION

- IT IS FAST: 100 to 200 fps FASTER than ANY conventional ammunition.
- IT IS ACCURATE: Uncompromising accuracy without increased felt recoil.
- IT IS CONSISTENT: Unfailing performance in any temperature.
- IT IS VERSATILE: This new breed of ammunition is available in 243 to 458, and is safe for use in ALL firearm types including semi-autos, lever guns and pump actions.





SHOTGUN AMMUNITION

TAP® 12 gauge Shotgun Ammunition lives up to the legendary Hornady® name in every way — reliable functioning, consistent performance and tighter patterns without modification to the shotgun.

Hornady offers two loads specially designed for the type of shotgun you use and the situations you face.

Both the Reduced Recoil™ (blue) and Light Magnum® (red) loadings offer reliable functioning, consistent performance, and better patterns than traditional shotgun shells through use of patented wad technology.

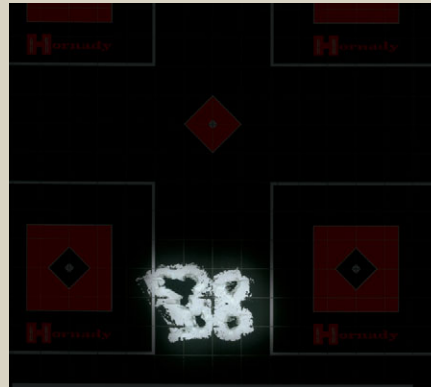


12 GA TAP® REDUCED RECOIL™ 00 BUCK ITEM #86265

Hornady TAP® Reduced Recoil™ (blue hull) is a lower-velocity load designed primarily for pump action shotguns. It comes loaded in a blue case with a load delivering a velocity of 1,100 fps out of a 30" test barrel.

Shot size: 00 Buckshot | **Pellet Count:** 8 | **Muzzle Velocity:** 991 fps
Firearm: Remington 870 Police Magnum, 18.5" barrel

FEATURING THE
VERSATITE™
WAD



7 Yards 1.325"



15 Yards 2.687"



25 Yards 4.437"

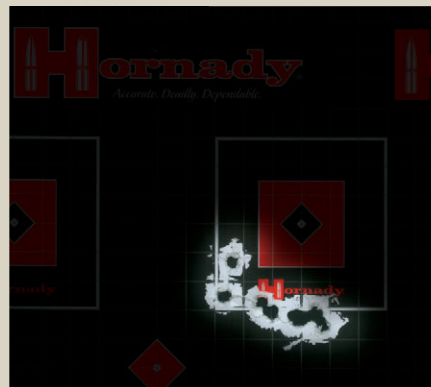


12 GA TAP® LIGHT MAGNUM® 00 BUCK ITEM #86275

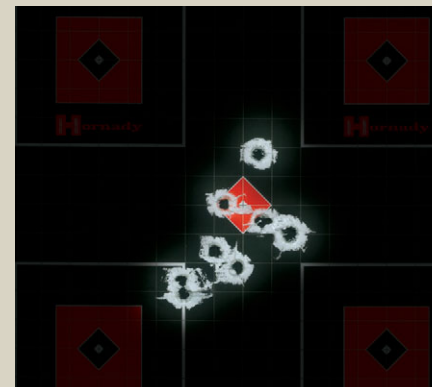
Hornady TAP® Light Magnum® Buckshot (red hull) is loaded with a velocity of 1600 fps, out of a 30" test barrel, and higher pressure to ensure proper functioning in semi-automatic police shotguns. The Light Magnum® Buckshot can also be used in pump action shotguns.

Shot size: 00 Buckshot | **Pellet Count:** 8 | **Muzzle Velocity:** 1428 fps
Firearm: Benelli M1 Super 90, 18.5" barrel

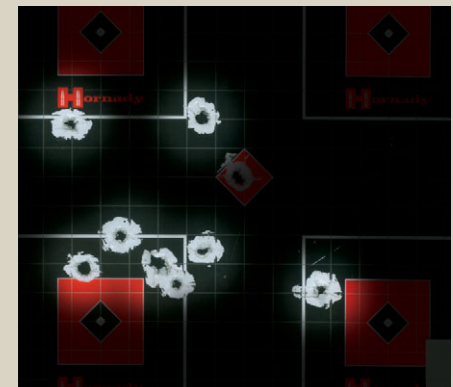
FEATURING THE
VERSATITE™
WAD



7 Yards 1.875"



15 Yards 2.75"



25 Yards 5.187"

Apparel and Shooting Accessories



NEW! Hornady® Sage & Tan Sweatshirt

High quality 100% cotton.
(Imprinted front and back)

Medium	No. 99740M
Large	No. 99740L
X-Large	No. 99740XL
XX-Large	No. 99740XXL



Hornady® TAP® T-Shirt

Black 100% cotton. (Imprinted on front and back)

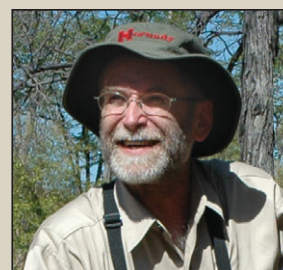
Medium	No. 9973M
Large	No. 9973L
X-Large	No. 9973XL
XX-Large	No. 9973XXL



Hornady® TAP® Polo

Black or white 100% cotton.
(Embroidered Front)

Large Black	No. 9952TB
Large White	No. 9952TW
X-Large Black	No. 9953TB
X-Large White	No. 9953TW
XX-Large Black	No. 9954TB
XX-Large White	No. 9954TW



Steve Hornady® "Signature" Boonie

Embroidered logo. One size fits most.
Item No. 9940

NEW!



Superior Cleaning Power for:

- Pistol Barrels
- AR Bolts
- Metal Gun Parts
- And More!

Lock-N-Load® Magnum Sonic Cleaner™

Provides superior, uniform cleaning action for cases, gun parts and tools, with adjustable heat to prevent overheating and damage to delicate parts.

(110V Item No. 043340)
(220V Item No. 043341)

One Shot® Sonic Clean™ Gun Parts Formula

Cleans all gun parts and is safe for all firearms finishes. Quickly removes carbon, dirt, grease and powder residue. Designed specifically for the Hornady® Lock-N-Load® Sonic Cleaners. 32 fl oz. No. 043360

One Shot® Canned Air

Quickly and efficiently dusts reloading tables, removes metal shavings from your press and aids in cleaning rifle and pistol actions.

Contains no CFCs. No. 99900



One Shot® Gun Cleaner & Dry Lube

Cleans grit, grime, oil and gunk from firearms, loaders and loading tools. It also reduces friction and leaves behind a thin, dry lube that doesn't build up. No. 9990



Hornady® Critical Defense® T-Shirt

Black. 100% cotton.

Medium	No. 9968M
Large	No. 9968L
X-Large	No. 9968XL
XX-Large	No. 9968XXL



Weathered "H" Shirts

Black short sleeve or red long sleeve. 100% cotton.

Medium Black	No. 9967M
Medium Red	No. 9969M
Large Black	No. 9967L
Large Red	No. 9969L
X-Large Black	No. 9967XL
X-Large Red	No. 9969XL
XX-Large Black	No. 9967XXL
XX-Large Red	No. 9969XXL
XXX-Large Red	No. 9969XXXL



Tactical 5.11 Shirts

100% cotton 5.11 tactical shirts with back vent, double elbows & hidden document pockets.

(Embroidered Front)

Medium	No. 9975M
Large	No. 9975L
X-Large	No. 9975XL
XX-Large	No. 9975XXL
XXX-Large	No. 9975XXXL

Also available in long sleeve.

Item No. 9976

(Please indicate M, L, XL, XXL, or XXXL)



No. 9922

No. 9928



No. 9934

No. 9934S

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