Thank you for your interest in Hornady Law Enforcement Tactical Ammunition. Every care has been taken to ensure that the information in this notebook is accurate and presented in the most straightforward manner possible. We plan to regularly update this notebook as more data becomes available or as the product line is expanded.

If you have any questions requiring further information or technical assistance, please feel free to contact us at 800-338-3220, ext. 0. Once again, thank you for your interest in our products.

Hornady Manufacturing Co.
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Grand Island, NE 68803
www.hornadyLE.com

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Hornady Test Protocol

Location: Hornady Manufacturing Ballistics Laboratory, Grand Island, Nebraska
Elevation: 1,800 feet ASL | Temperature: 74º F

Bullet Velocity [feet per second, fps]
All trajectories and associated velocities are from SAAMI minimum specification test barrels. An Oehler 83 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 program. 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 standard atmosphere (Sea level, 59º Fahrenheit, 29.92" Hg, .07647 lb./cu ft density)

All Hornady® ammunition featured in this Application Guide is tested according to established FBI Penetration Testing protocol.
An explanation of the official FBI Penetration Testing is included on the following five pages.

Note: The data provided in this report is intended as a guide 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.

All terminal testing is from actual firearms. The gelatin images represent one fired test shot. The data represents an average of five fired test shots. Individual results may vary.
The purpose of the FBI Penetration Test is to determine the following information regarding a particular cartridge:

1. The penetration performance of the cartridge's projectile, throughout the series of six tests (depth of penetration to nearest .25 inch, expansion of projectile, retained weight of the projectile)
2. The average velocity, both from a test barrel and a service weapon
3. The average accuracy, both from a test barrel and a service weapon

The test medium utilized is 10% ballistic gelatin (nominal), by weight. For a detailed description of the mixing procedure, see "Ballistic Gelatin Mixing Procedures Practiced by the FBI", below.

Tests One through Six are shot at a distance of 10 feet from the muzzle to the front face of the gelatin block, unless otherwise noted.

Test One - Bare Gelatin – Made in accordance with standard FBI protocol (10% ordnance gelatin).

Test Two - Heavy Clothing – The gelatin block is covered with four layers of clothing: one layer of cotton t-shirt material (approximately 5.25 ounces per yard, 48 threads per inch); one layer of cotton shirt material (approximately 3.5 ounces per yard, 80 threads per inch); one layer of Malden Mills Polartec 200 fleece and one layer of cotton denim (approximately 14.4 ounces per yard, 50 threads per inch).

Tests 3-6 utilize light clothing (e.g. the cotton t-shirt and dress shirt materials above), in addition to the mentioned intermediate barrier.

Test Three - Steel – Two pieces of 20 gauge, hot-rolled steel with a galvanized finish are set three inches apart. The clothing covered gelatin block is placed 18 inches behind the rear most piece of steel. This test event simulates the weakest part of a car door.

Test Four - Wallboard – Two pieces of ½ inch standard gypsum board are set 3.5 inches apart. The gelatin block is placed 18 inches behind the rear most piece of gypsum. This test event simulates a typical building interior wall.

Test Five - Plywood – One piece of 3/4 inch “AA” fir plywood is set 18 inches in front of the gelatin block. This test event simulates the resistance of typical wooden doors or construction timbers.

Test Six - Automobile Glass – One piece (15” X 18”) of A.S.I. 1/4 inch laminated automobile safety glass is set at an angle of 45˚ to the horizontal and 15˚ to the side, resulting in a compound angle. The gelatin block is placed 18 inches behind the glass. This test event simulates a shot taken at the driver of a car from the left front quarter of the vehicle.
Close Quarter Battle (CQB) testing is designed to provide information regarding the performance of projectiles fired from commonly used carbines. The CQB testing consists of tests 1-6 and the following:

**Bare Gelatin at 100 yards, short barrel** – This test is conducted with the shortest barrel carbine normally used in that caliber. In the case of FBI 5.56 short barrel carbines, the barrel length used is 10” 1:7 twist.

If the performance of the short barrel test indicates that the projectile is failing to expand, the test will be repeated with the original barrel length used throughout the test. In the case of the 5.56, FBI standard barrel configuration is 14.5”, 1:7 twist.

The penetration shots are conducted with a test barrel, when practical/available, in order to allow for more consistent comparison of the AMMUNITION. The results received from a test barrel might be the same, or different than those from a service weapon. A service weapon is utilized during velocity and accuracy tests in order to show a perspective of the deviation, if any, from the test barrel. It is important to note that a cartridge should not be chosen solely due to its accuracy from a service weapon, unless that accuracy is compared to other cartridges fired from the same EXACT service weapon. Results may vary somewhat from firearm to firearm, including functional characteristics e.g. one pistol may be substantially more accurate, or produce higher velocity than another of the same make and model. Each test report will clearly specify the weapon used for testing.

### Criteria For Which the FBI Will Conduct Penetration Testing

**For Outside Agencies:**

- Ammunition must conform to the voluntary standards recommended by the Sporting Arms & Ammunition Manufacturers Institute (SAAMI).
- Ammunition must be "Newly Manufactured", and consist of no previously used or loaded components.
- Ammunition must be currently utilized, or being strongly considered, as a duty round by the requesting agency.
- Ammunition must be currently available to the Law Enforcement market.
- Ammunition must be substantially different from other ammunition previously tested by the FBI. (e.g. Identical projectiles at the same velocity from different companies will generally not be tested).
- Request must be made on Official Agency Letterhead Stationary, signed by a supervisory level or higher officer.
- Request must be accompanied by 200 rounds of ammunition, from the same lot number. No ammunition will be returned.
- Results of all testing are the property of the FBI, and will be shared with the requesting agency and other law enforcement agencies.
Revisions to standard test:  
Switch from Down to Polartec, January 1, 2004

The original test, created in 1988, used a down comforter (500-550 fill power) in a cambric shell (approx 232 threads per inch) as part of the heavy clothing mix. On January 1st, 2004, the protocol was changed to replace the down comforter with Polartec 200 fleece.

The switch to Polartec 200 was made in an effort to reduce uncontrollable variables in the test procedure and because fleece had become more prevalent than Down. Down comforters typically consist of stitched baffles containing the down. As the comforter is laid in front of the gelatin block, it is not uncommon for down to migrate to the bottom of the panel. It was difficult, if not impossible, to ensure that each shot was subjected to the same amount of down.

Prior to the switch, a comparison of bullet penetration, expansion and retained weight was conducted to see what, if any, changes would occur. Five shots were fired into a block of gelatin covered with the "down" heavy clothing and five shots were fired into a block of gelatin covered with the "fleece" heavy clothing. The validation numbers for the gelatin blocks were similar to ensure that the blocks were as identical as possible.

Ten (10) cartridges, two (2) rifle and eight (8) handgun, were compared. The results showed that the penetration averages differed by .2” (a -0.8% change), the expansion differed by .01” (a 2.2% change) and the weight difference was negligible (a .5% change).

Based on the testing conducted, it was determined that the consistency provided by a change to fleece would make the test protocol more scientifically repeatable and, therefore, provide better data for making ammunition selections.

Revisions to CQB test:

The CQB test originally consisted of 13 events, the eight original events plus four additional tests designed to provide input into the performance of ammunition from submachine guns and/or carbines. Reporting CQB results for 13 tests required three pages (two data pages and a photograph page). As testing continued and data was compared, the following modifications were made to the protocol.

- **Bare Gelatin at 50 yards** – Eliminated during 2006. Examination of data showed it was always midway between bare gelatin at 10’ and bare gelatin at 100 yards.

- **Bare Gelatin at 100 yards** – Modified during 2010 to be fired with the shortest barrel commonly used in the FBI inventory.

- **Exterior Wall** – Eliminated April 2010. Examination of data showed it to be statistically insignificant compared to sheetrock and plywood tests.

- **IIA Soft Body Armor** – Eliminated during 2006. Every expanding pistol projectile tested was defeated by IIA soft Body Armor.

- **IIIA Soft Body Armor** – Eliminated during 2006. Every rifle projectile tested successfully penetrated front panel of IIA soft Body Armor. Expanding projectiles were stopped by back panel. This limited penetration depth to the distance between the panels. Captured data, therefore, was of limited value in evaluation of projectiles for LE use.

In addition to the above, on many tests, a cartridge which successfully defeated IIA soft armor was not tested against IIA armor. Similarly, a cartridge which was defeated by IIA soft armor was not tested against IIIA armor.

Additionally, during 2006, the CQB results were analyzed to see if any tests appeared redundant. Based on data available at that time, the 20 yard glass test was removed from the CQB protocol.
**Elimination of 20 yard events, February 1, 2011:** The test protocol originally was created with a 10 ft. distance to target to reflect the close nature of most LE shootings. At the time of conception, a logical question was how much difference, if any, would be seen at 20 yards. Therefore, the heavy clothing and (a slight variation of) the automobile glass test were repeated at 20 yards.

While the question is understandable, the 20 yard tests are now believed to be of limited value for the following reasons:

1. Historical data shows a statistically insignificant, if any, difference between the 10’ and 20 yard data for identical barriers.
2. The 20 yard impact velocity may be identical to, or even higher than, a 10 foot impact velocity.
3. The 20 yard events may skew the test results in favor of the barrier used.

With respect to velocity, the Sporting Arms and Ammunition Manufacturer’s Institute (SAAMI) recommends velocity boundaries of +/- 90 feet per second (fps). Most LE ammunition historically has shown much tighter tolerances than recommended. A random test of 40 rounds of premium factory service ammunition showed an average velocity of 988 fps with a range of 940 – 1024 fps. While the extreme spread of 84 fps is approximately ½ as large as SAAMI recommended limits, it could result in a 20 yard impact that is higher than a 10 ft. impact. Ballistic calculations during this test indicated that the projectile velocity decreased by approximately .4 fps per foot of travel. Therefore, in 50 feet of travel, it would be reasonable to expect the projectile to have lost approximately 20 fps.

If the fastest recorded shot had been 1024 fps, it would have impacted the 20 yard target with more velocity than an average shot would impact the 10 foot target.

An analysis of 23 years of ballistic data supports the opinion that any difference in data of 20 yard results is statistically insignificant compared to 10 foot results.

The 20 yard events, therefore, simply add more shots in the glass and heavy clothing test events. The FBI theory of a projectile that is "barrier blind" treats each barrier equally. Five shots are fired for each event. The inclusion of the 20 yard tests results in data of 10 shots for each of those barriers being considered. As the data for each test is individually reported, those analyzing performance have the option of assigning more emphasis on any individual event, at their discretion.

**Ballistic Gelatin Mixing Procedures Practiced By The FBI:**
In December, 1988, the FBI Academy Firearms Training Unit (FTU) designed and implemented the FBI Ammunition Tests. The test designs are based on research and consultation with experts in the fields of wound ballistics, forensic pathology, wound research and medical research. The full report of this research is available to Law Enforcement Agencies and Military Units on the FBI Ammunition Data and Sniper Targets CD ROM. This CD may be obtained from the FBI Ballistic Research Facility.

The tissue simulant utilized in FBI ballistic tests is Kind & Knox or Vyse 250-A ordnance gelatin. The mixture is 10%, by weight. Properly calibrated 10% ordnance gelatin is a reliable tissue simulant. Validation of ballistic gelatin is conducted by firing a .177” steel BB at 590 feet per second (fps), plus or minus 15 fps, into the gelatin, resulting in 8.5 centimeters (cm), plus or minus 1 cm, penetration (2.95” - 3.74”). All gelatin was stored at 40° F until just prior to testing. The gelatin was placed 10 feet from the muzzle of the test weapon (unless otherwise noted).
The gelatin is mixed in the following manner (assuming a 20 pound block is desired):

- Weigh out two (2) pounds of gelatin powder\(^2\) and place aside.
- Weigh out 18 pounds of hot 60°C (140°F) water in a plastic bucket. (Note: The FBI utilizes a scale which weighs to the nearest .01 lb).
- Add 2.5 ml of Foam Eater to the hot water.
- Add approximately .5 ml of oil of cinnamon to the hot water (prevents fungus growth).
- While utilizing a battery-operated drill with a mixing paddle attached, mix the water to the point of forming a whirlpool, but without introducing air into the mixture.
- While the water is being mixed, slowly add the gelatin powder.
- Pour the mixture into a clean mold pan.
- Allow to stand at room temperature for approximately 4 hours.
- Write date on small square of cardboard and place on top of mixture.
- Place pan with mixture into refrigerator set at 4°C (39.2°F).
- Allow to cure for 36 hours (note: larger blocks require longer cure time e.g. an 80 lb. block requires 96 hours to cure).

Blocks, over time, deteriorate and are temperature sensitive. Former FBI publications advocated utilizing blocks within 20 minutes of removal from the refrigerator (a general statement pertaining to ambient temperature indoors). Allowable time outside the refrigerator is, however, relative to the temperature of the test environment (e.g. a block removed from a refrigerator and maintained in a room at the same temperature as the refrigerator will retain its validation significantly longer than one placed outside on a hot summer day). Note: some authorities believe mixing procedures may vary the consistency of gelatin. FBI studies indicate, however, that a block which displays the required level of penetration, within the required velocity range, is a "valid" tissue simulant.

The FBI Ballistic Research Facility conducts its tests in an environmentally controlled shooting laboratory. Blocks of gelatin are removed from the refrigerator and checked for validation. Only valid blocks are used for testing. Blocks used in testing of conventional pistol ammunition are approximately 6.25” X 6.25” X 16”. The initial block of gelatin used in a test is called the Primary Block. Each Primary Block is utilized for a maximum of 5 shots, one in each corner, approximately 1.75” from the nearest edge, and one in the center. Tests conducted by the FBI indicate this placement of shots results in substantially the same penetration as single shots into virgin blocks of gelatin. Any shots which cross the wound path of previous shots are refired. Primary blocks are not utilized for more than 5 shots, to include any shots which are refired.

Because some shots may penetrate more than one block of gelatin, one or more "stopper" blocks are placed behind the primary block. The stopper blocks may be utilized for more than one test, provided that wound channels are not crossed. At the end of each test, the stopper block is placed back into the refrigerator while another stopper is utilized with an unused Primary block. Stopper blocks may receive more than 5 penetrations, provided that no wound channels are crossed (e.g. a stopper which has 5 penetrations of 3” into one end can be flipped over and again used as a stopper). The FBI does not reuse gelatin. Used blocks are discarded.

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\(^2\) This weight is approximate. Due to the nature of gelatin, the exact ratio of powder to water must be determined, via testing. The current (February 2011) lot number (49454-81711) of Vyse gelatin in use by the FBI requires 2.35 pounds of powder to 17.65 pounds of water to create a block which most exhibits proper validation.
Gelatin Wound Profile Nomenclature

Gelatin Wound Channel

Maximum Temporary Cavity
(D)

Entry
(B)

Depth to Maximum Cavity
(C)

Total Penetration
(A)
What is the Member Tested and Recommended Program?

This program allows manufacturers to have their products tested in the field by the law enforcement community. Results are published on our website and in our quarterly journal, *The Tactical Edge*. Products receiving a rating of 3.0 or higher will receive NTOA Field Tester Recommended Status and be allowed to affix the NTOA Member Tested & Recommended logo to the product materials. Products that score lower than 3.0 will not receive approval.

Products are tested and scored in 13 possible categories on a scale of 0 to 5.

3. Ease of Use  7. Storage

5 – **Excellent**: Defined as a product that performs at a level above advertised specifications and demonstrates its usefulness and quality of workmanship every time it is used and can be used for other purposes.

4 – **Very Good**: Defined as a product that exceeds advertised specifications on a regular basis and outperforms others in usefulness and quality of workmanship.

3 – **Average**: Defined as a product that meets minimum advertised specifications, has practical use, but does not go above or beyond the scope of quality or usefulness that is expected.

2 – **Fair**: Defined as a product that has occasional applications and in some situations meets advertised specifications, but overall is not effective.

0-1 – **Poor**: Defined as a product that does not meet minimum advertised specifications needed to make the product useful, product does not meet any of its practical purposes.

**NOTICE**: Please note that this is not a product endorsement from the NTOA, it is a recommendation by a field tester for the law enforcement community. The NTOA Member Tested and Recommended program is designed as a service to assist the association’s membership in selecting the best products available to the tactical community. NTOA does not provide a warranty, expressed or implied, or guarantee any of the products that have been tested and approved. NTOA assumes no liability for the use or misuse of any of the featured products.
The patented Hornady® Flex Tip® design of the FlexLock® bullet eliminates clogging and aids bullet expansion. A large mechanical jacket-to-core InterLock® band works to keep the bullet and core from separating for maximum weight retention, excellent expansion and consistent penetration and terminal performance through all FBI test barriers.

The FlexLock® is an “intelligent bullet” that reacts differently depending on the barrier it encounters, delivering “barrier blind” performance after penetrating urban barriers such as plywood, sheet metal and even auto glass.

Bright nickel plated cases eliminate cartridge case tarnish, and the highly visible silver nickel simplifies chamber checks in reduced light. Additionally, all Critical DUTY® ammunition is loaded with low flash propellant to help preserve night vision in low-light firing.

For the ultimate in tactical terminal ballistic performance through all FBI established urban barriers, choose Critical DUTY® ammunition.

**Hornady Product Summary**

Law enforcement and tactical professionals now have a truly advanced, 21st century handgun ammunition solution that delivers the most consistent and reliable urban barrier performance ever created! The proven Flex Tip® design of the new FlexLock® bullet eliminates clogging and aids bullet expansion. Its large mechanical jacket-to-core InterLock® band works to keep the bullet and core from separating for maximum weight retention and proven terminal performance through all FBI test barriers.

This line of ammunition is intended for Law Enforcement sales ONLY.

B.C. = Ballistic Coefficient
CRITICAL DUTY®
124 gr. 9MM LUGER+P

ITEM NO. 90215
Performance Characteristics:
• Meets FBI Protocol
• High retained weight
• Barrier blind
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0200 lbs

CASE: 9MM LUGER+P
• Manufacturer’s name (Hornady) and caliber designation (9mm Luger+P) imprinted on case head
• Characteristics: Nickel plated

BULLET: FLEXLOCK®
• Ballistic Coefficient: .179
• Sectional Density: .141
• Recommended Rifling
  • Twist Rate: Best terminal performance achieved in 1:10” twist
• Characteristics: Flex Tip® and InterLock®
• Push/Pull: 80/80

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small pistol, sealed case mouth, sealed primer

LOT NUMBERS
• Lot numbers on each box and case

BALLISTIC DATA
<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tr>
<td>1175</td>
<td>1081</td>
<td>1012</td>
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PACKAGING
• Tray Number: 5733
• Box Weight: 1.40 lbs
• Gross Weight: 1.50 lbs
• 50 rounds per box with plastic tray
• Carton Number: 8452
• Carton Weight: 15.3 lbs
• Carton Dimensions: 3.25” x 5.675” x 13.25”
• 10 boxes per carton (500 rounds per carton)
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>13.0”</td>
<td>2.5”</td>
<td>3.25”</td>
<td>0.25”</td>
<td>124.0 gr.</td>
<td>100%</td>
<td>0.53”</td>
<td>1140</td>
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<tr>
<td>HVY CLOTHING</td>
<td>13.25”</td>
<td>3.0”</td>
<td>3.0”</td>
<td>0.50”</td>
<td>124.0 gr.</td>
<td>100%</td>
<td>0.50”</td>
<td>1145</td>
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<tr>
<td>STEEL</td>
<td>15.0”</td>
<td>2.75”</td>
<td>2.0”</td>
<td>0.0”</td>
<td>120.0 gr.</td>
<td>97%</td>
<td>0.52”</td>
<td>1132</td>
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<tr>
<td>WALLBOARD</td>
<td>12.0”</td>
<td>2.5”</td>
<td>2.5”</td>
<td>0.0”</td>
<td>123.3 gr.</td>
<td>99%</td>
<td>0.55”</td>
<td>1148</td>
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<tr>
<td>PLYWOOD</td>
<td>13.75”</td>
<td>2.25”</td>
<td>2.5”</td>
<td>0.0”</td>
<td>124.0 gr.</td>
<td>100%</td>
<td>0.52”</td>
<td>1137</td>
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<tr>
<td>AUTO GLASS</td>
<td>15.0”</td>
<td>2.0”</td>
<td>3.0”</td>
<td>0.0”</td>
<td>82.4 gr.</td>
<td>66%</td>
<td>0.39”</td>
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CRITICAL DUTY®
135 gr. 9MM LUGER

ITEM NO. 90235

Performance Characteristics:
- Meets FBI Protocol
- High retained weight
- Barrier blind
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0364 lbs

CASE: 9MM LUGER

- Manufacturer's name (Hornady) and caliber designation (9mm Luger) imprinted on case head
- Characteristics: Nickel plated

BULLET: FLEXLOCK®

- Ballistic Coefficient: .195
- Sectional Density: .153
- Recommended Rifling
  Twist Rate: Best terminal performance achieved in 1:10" twist
- Characteristics: Flex Tip® and InterLock®
- Push/Pull: 100/100

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Small pistol, sealed case mouth, sealed primer

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tr>
<td></td>
<td>1010</td>
<td>960</td>
<td>918</td>
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</table>

PACKAGING

- Tray Number: 5733
- Box Weight: 1.44 lbs
- Gross Weight: 1.54 lbs
- 50 rounds per box with plastic tray
- Carton Number: 8452
- Carton Weight: 15.4 lbs
- Carton Dimensions: 3.25" x 5.675" x 13.25"
- 10 boxes per carton (500 rounds per carton)
| Material          | Total Penetration | Max Cavity | Depth to Max Cavity | Initial Penetration | Retained Weight | Retained Weight % | Expanded Diameter | Velocity (fps) |
|-------------------|-------------------|------------|---------------------|---------------------|-----------------|-------------------|------------------|----------------|----------------|
| BARE GELATIN     | 15.25"            | 2.25"      | 2.0"                | 0.25"               | 135.0 gr.       | 100%              | 0.56"            | 1056           |
| HVY CLOTHING      | 15.5"             | 2.25"      | 4.0"                | 0.5"                | 135.0 gr.       | 100%              | 0.50"            | 1066           |
| STEEL             | 13.75"            | 1.5"       | 3.5"                | 0.0"                | 133.0 gr.       | 99%               | 0.49"            | 1067           |
| WALLBOARD         | 13.5"             | 2.0"       | 2.0"                | 0.25"               | 136.0 gr.       | 100%              | 0.58"            | 1065           |
| PLYWOOD           | 15.0"             | 1.5"       | 3.0"                | 0.25"               | 135.0 gr.       | 100%              | 0.51"            | 1070           |
| AUTO GLASS        | 13.75"            | 1.75"      | 0.75"               | 0.0"                | 90.5 gr.        | 67%               | 0.41"            | 1061           |
CRITICAL DUTY®
135 gr. 9MM LUGER+P

ITEM NO. 90225

Performance Characteristics:
- Meets FBI Protocol
- High retained weight
- Barrier blind
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0443 lbs

LOT NUMBERS
- Lot numbers on each box and case

BALLISTIC DATA

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<tr>
<th></th>
<th>Muzzle</th>
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<th>100 yds</th>
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<td>1038</td>
<td>983</td>
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</tbody>
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PACKAGING
- Tray Number: 5733
- Box Weight: 1.44 lbs
- Gross Weight: 1.55 lbs
- 50 rounds per box with plastic tray
- Carton Number: 8452
- Carton Weight: 15.5 lbs
- Carton Dimensions: 3.25” x 5.675” x 13.25”
- 10 boxes per carton (500 rounds per carton)

CASE: 9MM LUGER+P

- Manufacturer’s name (Hornady) and caliber designation (9mm LUGER+P) imprinted on case head
- Characteristics: Nickel plated

BULLET: FLEXLOCK®
- Ballistic Coefficient: .195
- Sectional Density: .153
- Recommended Rifling
  - Twist Rate: Best terminal performance achieved in 1:10” twist
- Characteristics: Flex Tip® and InterLock®
- Push/Pull: 100/100

POWDER & PRIMER
- Powder: Temperature stable with flash retardant
- Primer: Small pistol, sealed case mouth, sealed primer

SCALE 1:1

BALLISTIC COEFFICIENT: .195
SECTIONAL DENSITY: .153
RECOMMENDED RIFLING
Twist Rate: Best terminal performance achieved in 1:10” twist

Characteristics:
- Flex Tip® and InterLock®
- Push/Pull: 100/100

Net Explosive Weight (approx. per box): 0.0443 lbs
<table>
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<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Max Cavity Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>14.0&quot;</td>
<td>2.5&quot;</td>
<td>3.0&quot;</td>
<td>0.25&quot;</td>
<td>135.0 gr.</td>
<td>100%</td>
<td>0.60&quot;</td>
<td>1162</td>
</tr>
<tr>
<td>HVY CLOTHING</td>
<td>15.0&quot;</td>
<td>3.0&quot;</td>
<td>3.0&quot;</td>
<td>0.5&quot;</td>
<td>135.0 gr.</td>
<td>100%</td>
<td>0.55&quot;</td>
<td>1164</td>
</tr>
<tr>
<td>STEEL</td>
<td>14.5&quot;</td>
<td>1.5&quot;</td>
<td>2.5&quot;</td>
<td>0.0&quot;</td>
<td>131.4 gr.</td>
<td>97%</td>
<td>0.53&quot;</td>
<td>1171</td>
</tr>
<tr>
<td>WALLBOARD</td>
<td>13.0&quot;</td>
<td>2.25&quot;</td>
<td>2.25&quot;</td>
<td>0.25&quot;</td>
<td>135.0 gr.</td>
<td>100%</td>
<td>0.62&quot;</td>
<td>1159</td>
</tr>
<tr>
<td>PLYWOOD</td>
<td>14.75&quot;</td>
<td>2.25&quot;</td>
<td>4.0&quot;</td>
<td>0.5&quot;</td>
<td>134.8 gr.</td>
<td>100%</td>
<td>0.57&quot;</td>
<td>1167</td>
</tr>
<tr>
<td>AUTO GLASS</td>
<td>14.75&quot;</td>
<td>2.0&quot;</td>
<td>1.25&quot;</td>
<td>0.0&quot;</td>
<td>92.6 gr.</td>
<td>69%</td>
<td>0.42&quot;</td>
<td>1157</td>
</tr>
</tbody>
</table>

CRITICAL DUTY® | 135 gr. 9MM LUGER +P
4.5" BBL | Glock 17
ITEM NO. 90225
# Critical Duty®

## 135 gr. 357 SIG

### Item No. 91295

**Performance Characteristics:**
- Meets FBI Protocol
- High retained weight
- Barrier blind
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0500 lbs

### Case: 357 SIG

- Manufacturer's name (Hornady) and caliber designation (357 SIG) imprinted on case head
- **Characteristics:** Nickel plated

### Bullet: FlexLock®

- **Ballistic Coefficient:** 0.153
- **Sectional Density:** 0.153
- **Recommended Rifling**
  - **Twist Rate:** Best terminal performance achieved in 1:10" twist
- **Characteristics:** Flex Tip® and InterLock®
- **Push/Pull:** 75/75

### Powder & Primer

- **Powder:** Temperature stable with flash retardant
- **Primer:** Small pistol, sealed case mouth, sealed primer

### Lot Numbers

- Lot numbers on each box and case

### Ballistic Data

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>1225</td>
<td>1113</td>
<td>1032</td>
<td></td>
</tr>
</tbody>
</table>

### Packaging

- **Tray Number:** 5732
- **Box Weight:** 1.57 lbs
- **Gross Weight:** 1.68 lbs
- **50 rounds per box with plastic tray**
- **Carton Number:** 5744
- **Carton Weight:** 16.8 lbs
- **Carton Dimensions:** 6.75" x 6.687" x 7.5"
- **10 boxes per carton (500 rounds per carton)**
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity Depth</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>14.0&quot;</td>
<td>2.75&quot;</td>
<td>3.5&quot;</td>
<td>0.25&quot;</td>
<td>133.7 gr.</td>
<td>99%</td>
<td>0.58&quot;</td>
<td>1221</td>
</tr>
<tr>
<td>Heavy Clothing</td>
<td>13.5&quot;</td>
<td>2.25&quot;</td>
<td>2.75&quot;</td>
<td>0.25&quot;</td>
<td>133.3 gr.</td>
<td>99%</td>
<td>0.56&quot;</td>
<td>1218</td>
</tr>
<tr>
<td>Steel</td>
<td>15.0&quot;</td>
<td>2.5&quot;</td>
<td>4.0&quot;</td>
<td>1.0&quot;</td>
<td>128.2 gr.</td>
<td>95%</td>
<td>0.51&quot;</td>
<td>1227</td>
</tr>
<tr>
<td>Wallboard</td>
<td>16.5&quot;</td>
<td>2.0&quot;</td>
<td>4.5&quot;</td>
<td>0.25&quot;</td>
<td>134.4 gr.</td>
<td>100%</td>
<td>0.42&quot;</td>
<td>1226</td>
</tr>
<tr>
<td>Plywood</td>
<td>17.75&quot;</td>
<td>2.25&quot;</td>
<td>3.0&quot;</td>
<td>0.5&quot;</td>
<td>134.7 gr.</td>
<td>100%</td>
<td>0.53&quot;</td>
<td>1231</td>
</tr>
<tr>
<td>Auto Glass</td>
<td>15.5&quot;</td>
<td>1.75&quot;</td>
<td>3.5&quot;</td>
<td>0.0&quot;</td>
<td>104.0 gr.</td>
<td>77%</td>
<td>0.49&quot;</td>
<td>1230</td>
</tr>
</tbody>
</table>
CRITICAL DUTY®
135 gr. 357 MAG

ITEM NO. 90515

Performance Characteristics:
• High retained weight
• Barrier blind
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0657 lbs

CASE: 357 MAG

• Manufacturer's name (Hornady) and caliber designation (357 MAG) imprinted on case head
• Characteristics: Nickel plated

BULLET: FLEXLOCK®

• Ballistic Coefficient: .170
• Sectional Density: .151
• Recommended Rifling Twist Rate: Best terminal performance achieved in 1:18.75" twist
• Characteristics: Flex Tip® and InterLock®
• Push/Pull: 150/150

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Small pistol, sealed case mouth, sealed primer

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1275</td>
<td>1150</td>
<td>1059</td>
</tr>
</tbody>
</table>

PACKAGING

• Tray Number: 5733
• Box Weight: 1.59 lbs
• Gross Weight: 1.7 lbs
• 50 rounds per box with plastic tray
• Carton Number: 5717
• Carton Weight: 17.0 lbs
• Carton Dimensions: 4.0" x 5.75" x 14.625"
• 10 boxes per carton (500 rounds per carton)
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity Depth</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>14.0&quot;</td>
<td>3.5&quot;</td>
<td>4.0&quot;</td>
<td>0.5&quot;</td>
<td>133.8 gr.</td>
<td>99%</td>
<td>0.58&quot;</td>
</tr>
<tr>
<td>HVY CLOTHING</td>
<td>14.4&quot;</td>
<td>2.5&quot;</td>
<td>3.25&quot;</td>
<td>0.5&quot;</td>
<td>133.8 gr.</td>
<td>99%</td>
<td>0.57&quot;</td>
</tr>
<tr>
<td>STEEL</td>
<td>14.7&quot;</td>
<td>2.0&quot;</td>
<td>3.0&quot;</td>
<td>0.5&quot;</td>
<td>132.6 gr.</td>
<td>98%</td>
<td>0.50&quot;</td>
</tr>
<tr>
<td>WALLBOARD</td>
<td>18.5&quot;</td>
<td>2.0&quot;</td>
<td>5.0&quot;</td>
<td>0.5&quot;</td>
<td>134.3 gr.</td>
<td>100%</td>
<td>0.44&quot;</td>
</tr>
<tr>
<td>PLYWOOD</td>
<td>18.1&quot;</td>
<td>2.0&quot;</td>
<td>3.0&quot;</td>
<td>0.5&quot;</td>
<td>134.4 gr.</td>
<td>100%</td>
<td>0.46&quot;</td>
</tr>
<tr>
<td>AUTO GLASS</td>
<td>14.1&quot;</td>
<td>2.0&quot;</td>
<td>2.5&quot;</td>
<td>0.5&quot;</td>
<td>98.0 gr.</td>
<td>73%</td>
<td>0.46&quot;</td>
</tr>
</tbody>
</table>
CRITICAL DUTY®
175 gr. 40 S&W

ITEM NO. 91375
Performance Characteristics:
• Meets FBI Protocol
• High retained weight
• Barrier blind
• Proven terminal performance
• Net Explosive Weight (approx. per box): 0.0436 lbs

CASE: 40 S&W
• Manufacturer’s name (Hornady) and caliber designation (40 S&W) imprinted on case head
• Characteristics: Nickel plated

BULLET: FLEXLOCK®
• Ballistic Coefficient: .155
• Sectional Density: .156
• Recommended Rifling Twist Rate: Best terminal performance achieved in 1:10” twist
• Characteristics: Flex Tip® and InterLock®
• Push/Pull: 150/150

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small pistol, sealed case mouth, sealed primer

LOT NUMBERS
• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1010</td>
<td>948</td>
<td>899</td>
</tr>
</tbody>
</table>

PACKAGING

• Tray Number: 5732
• Box Weight: 1.84 lbs
• Gross Weight: 1.97 lbs
• 50 rounds per box with plastic tray
• Carton Number: 5744
• Carton Weight: 19.7 lbs
• Carton Dimensions: 6.75” x 6.687” x 7.5”
• 10 boxes per carton (500 rounds per carton)
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>13.5&quot;</td>
<td>2.0&quot;</td>
<td>3.5&quot;</td>
<td>0.25&quot;</td>
<td>172.5 gr.</td>
<td>99%</td>
<td>0.57&quot;</td>
<td>1067</td>
</tr>
<tr>
<td>Heavy Clothing</td>
<td>14.5&quot;</td>
<td>2.5&quot;</td>
<td>2.5&quot;</td>
<td>0.25&quot;</td>
<td>173.0 gr.</td>
<td>99%</td>
<td>0.54&quot;</td>
<td>1062</td>
</tr>
<tr>
<td>Steel</td>
<td>13.0&quot;</td>
<td>2.0&quot;</td>
<td>2.0&quot;</td>
<td>0.0&quot;</td>
<td>172.0 gr.</td>
<td>98%</td>
<td>0.57&quot;</td>
<td>1066</td>
</tr>
<tr>
<td>Wallboard</td>
<td>14.0&quot;</td>
<td>2.75&quot;</td>
<td>2.5&quot;</td>
<td>0.25&quot;</td>
<td>173.0 gr.</td>
<td>99%</td>
<td>0.63&quot;</td>
<td>1059</td>
</tr>
<tr>
<td>Plywood</td>
<td>15.0&quot;</td>
<td>1.75&quot;</td>
<td>2.0&quot;</td>
<td>0.25&quot;</td>
<td>173.0 gr.</td>
<td>99%</td>
<td>0.52&quot;</td>
<td>1063</td>
</tr>
<tr>
<td>Auto Glass</td>
<td>13.0&quot;</td>
<td>1.5&quot;</td>
<td>3.5&quot;</td>
<td>0.0&quot;</td>
<td>138.0 gr.</td>
<td>79%</td>
<td>0.61&quot;</td>
<td>1063</td>
</tr>
</tbody>
</table>
CRITICAL DUTY®
175 gr. 10MM AUTO

ITEM NO. 91255

Performance Characteristics:
- Meets FBI Protocol
- High retained weight
- Barrier blind
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0564 lbs

CASE: 10MM

- Manufacturer’s name (Hornady) and caliber designation (10MM) imprinted on case head
- Characteristics: Nickel plated

BULLET: FLEXLOCK®

- Ballistic Coefficient: .155
- Sectional Density: .156
- Recommended Rifling
  Twist Rate: 1:10” twist
- Characteristics: Flex Tip® and InterLock®
- Push/Pull: 100/100

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Small pistol, sealed case mouth, sealed primer

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1150</td>
<td>1052</td>
<td>981</td>
</tr>
</tbody>
</table>

PACKAGING

- Tray Number: 5732
- Box Weight: 1.95 lbs
- Gross Weight: 2.04 lbs
- 50 rounds per box with plastic tray
- Carton Number: 5739
- Carton Weight: 20.4 lbs
- Carton Dimensions: 6.875” x 6.625” x 9.375”
- 10 boxes per carton (500 rounds per carton)
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity Depth</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>13.25&quot;</td>
<td>2.5&quot;</td>
<td>3.25&quot;</td>
<td>0.25&quot;</td>
<td>172.5 gr.</td>
<td>99%</td>
<td>0.66&quot;</td>
<td>1134</td>
</tr>
<tr>
<td>Heavy Clothing</td>
<td>14.5&quot;</td>
<td>2.75&quot;</td>
<td>3.0&quot;</td>
<td>0.25&quot;</td>
<td>173.1 gr.</td>
<td>99%</td>
<td>0.63&quot;</td>
<td>1121</td>
</tr>
<tr>
<td>Steel</td>
<td>15.75&quot;</td>
<td>2.25&quot;</td>
<td>2.5&quot;</td>
<td>0.0&quot;</td>
<td>172.8 gr.</td>
<td>99%</td>
<td>0.56&quot;</td>
<td>1126</td>
</tr>
<tr>
<td>Wallboard</td>
<td>13.0&quot;</td>
<td>3.25&quot;</td>
<td>3.0&quot;</td>
<td>0.25&quot;</td>
<td>168.4 gr.</td>
<td>96%</td>
<td>0.67&quot;</td>
<td>1139</td>
</tr>
<tr>
<td>Plywood</td>
<td>14.0&quot;</td>
<td>2.25&quot;</td>
<td>2.5&quot;</td>
<td>0.25&quot;</td>
<td>170.1 gr.</td>
<td>97%</td>
<td>0.68&quot;</td>
<td>1128</td>
</tr>
<tr>
<td>Auto Glass</td>
<td>14.0&quot;</td>
<td>1.75&quot;</td>
<td>4.0&quot;</td>
<td>0.0&quot;</td>
<td>139.5 gr.</td>
<td>80%</td>
<td>0.55&quot;</td>
<td>1119</td>
</tr>
</tbody>
</table>
CRITICAL DUTY®
220 gr. 45 AUTO+P

ITEM NO. 90925
Performance Characteristics:
• Meets FBI Protocol
• High retained weight
• Barrier blind
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0557 lbs

LOT NUMBERS
• Lot numbers on each box and case

BALLISTIC DATA
<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>975</td>
<td>927</td>
<td>887</td>
</tr>
</tbody>
</table>

PACKAGING
• Tray Number: 5732
• Box Weight: 2.26 lbs
• Gross Weight: 2.5 lbs
• 50 rounds per box with plastic tray
• Carton Number: 5739
• Carton Weight: 25.0 lbs
• Carton Dimensions: 6.875" x 6.625" x 9.375"
• 10 boxes per carton (500 rounds per carton)

CASE: 45 AUTO+P
• Manufacturer's name (Hornady) and caliber designation (45 AUTO+P) imprinted on case head
• Characteristics: Nickel plated

BULLET: FLEXLOCK®
• Ballistic Coefficient: .180
• Sectional Density: .155
• Recommended Rifling Twist Rate: Performance achieved in 1:16" twist
• Characteristics: Flex Tip® and InterLock®
• Push/Pull: 150/150

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small pistol, sealed case mouth, sealed primer

BULLET: FLEXLOCK®

CRITICAL DUTY ®
220 gr. 45 AUTO+P

ITEM NO. 90925
Performance Characteristics:
• Meets FBI Protocol
• High retained weight
• Barrier blind
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0557 lbs

LOT NUMBERS
• Lot numbers on each box and case

BALLISTIC DATA
<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>975</td>
<td>927</td>
<td>887</td>
</tr>
</tbody>
</table>

PACKAGING
• Tray Number: 5732
• Box Weight: 2.26 lbs
• Gross Weight: 2.5 lbs
• 50 rounds per box with plastic tray
• Carton Number: 5739
• Carton Weight: 25.0 lbs
• Carton Dimensions: 6.875" x 6.625" x 9.375"
• 10 boxes per carton (500 rounds per carton)

CASE: 45 AUTO+P
• Manufacturer's name (Hornady) and caliber designation (45 AUTO+P) imprinted on case head
• Characteristics: Nickel plated

BULLET: FLEXLOCK®
• Ballistic Coefficient: .180
• Sectional Density: .155
• Recommended Rifling Twist Rate: Performance achieved in 1:16" twist
• Characteristics: Flex Tip® and InterLock®
• Push/Pull: 150/150

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small pistol, sealed case mouth, sealed primer
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>14.0&quot;</td>
<td>2.25&quot;</td>
<td>3.75&quot;</td>
<td>0.5&quot;</td>
<td>217.8 gr.</td>
<td>99%</td>
<td>0.71&quot;</td>
<td>969</td>
</tr>
<tr>
<td>HVY CLOTHING</td>
<td>14.5&quot;</td>
<td>2.25&quot;</td>
<td>4.5&quot;</td>
<td>0.5&quot;</td>
<td>218.1 gr.</td>
<td>99%</td>
<td>0.69&quot;</td>
<td>976</td>
</tr>
<tr>
<td>STEEL</td>
<td>17.75&quot;</td>
<td>2.0&quot;</td>
<td>3.0&quot;</td>
<td>0.0&quot;</td>
<td>217.9 gr.</td>
<td>99%</td>
<td>0.54&quot;</td>
<td>973</td>
</tr>
<tr>
<td>WALLBOARD</td>
<td>13.5&quot;</td>
<td>2.0&quot;</td>
<td>2.5&quot;</td>
<td>0.5&quot;</td>
<td>218.0 gr.</td>
<td>99%</td>
<td>0.70&quot;</td>
<td>979</td>
</tr>
<tr>
<td>PLYWOOD</td>
<td>15.0&quot;</td>
<td>2.5&quot;</td>
<td>3.5&quot;</td>
<td>0.75&quot;</td>
<td>218.0 gr.</td>
<td>99%</td>
<td>0.66&quot;</td>
<td>978</td>
</tr>
<tr>
<td>AUTO GLASS</td>
<td>13.75&quot;</td>
<td>1.25&quot;</td>
<td>4.5&quot;</td>
<td>0.0&quot;</td>
<td>165.7 gr.</td>
<td>75%</td>
<td>0.53&quot;</td>
<td>972</td>
</tr>
</tbody>
</table>
Thank you for participating in our “Member Tested and Recommended Program.” The **9mm Luger FlexLock Critical DUTY®** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.89**.

Press releases written regarding this product review must be emailed to NTOA for review before release to assure the wording is correct.

This product and its reviews are now listed on the NTOA’s Member Tested and Recommended online database. The reviews will also be published in *The Tactical Edge* journal, as time allows. Please send us a digital image of the product that has been tested so we can add it to the online database.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our Member Tested and Recommended Program. The 9mm Luger +P Critical Duty 135 gr Flexlock Cartridges have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.93.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in The Tactical Edge journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The **Critical Duty 357 SIG Cartridges** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.78**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The 357 MAG 135 Grain Flexlock Critical Duty Rounds have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.74.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in The Tactical Edge journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Member Tested and Recommended Program

Thank you for participating in our “Member Tested and Recommended Program.” The 40 S&W FlexLock Critical DUTY® has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.89.

Press releases written regarding this product review must be emailed to NTOA for review before release to assure the wording is correct.

This product and its reviews are now listed on the NTOA’s Member Tested and Recommended online database. The reviews will also be published in The Tactical Edge journal, as time allows. Please send us a digital image of the product that has been tested so we can add it to the online database.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our Member Tested and Recommended Program. The **10mm AUTO 175 Grain Critical Duty Rounds** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a *4.42*.

This product and its review are now listed on the NTOA's Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Member Tested and Recommended Program

Thank you for participating in our “Member Tested and Recommended Program.” The 45 Auto +P FlexLock Critical DUTY® has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.79.

Press releases written regarding this product review must be emailed to NTOA for review before release to assure the wording is correct.

This product and its reviews are now listed on the NTOA’s Member Tested and Recommended online database. The reviews will also be published in The Tactical Edge journal, as time allows. Please send us a digital image of the product that has been tested so we can add it to the online database.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©

Thank you,

Corey Luby
800-279-9127x120
The difference between
Critical DUTY® & Critical DEFENSE®

Critical DUTY® = On-Duty/Patrol/Tactical

Critical DUTY® handgun ammunition is built to meet the diverse on-duty requirements of law enforcement and tactical professionals. Critical DUTY® ammunition delivers superior barrier penetration and subsequent terminal performance, while still minimizing the liability of over-penetration.

The FlexLock® bullets loaded in all Critical DUTY® offerings are rugged, heavy-jacketed bullets that deliver “barrier blind” performance when shot through common urban barriers* (bare gelatin, auto glass, sheet metal, plywood, drywall, and heavy clothing). In addition, Critical DUTY® loads are designed to work in ALL handguns. However, these loads deliver optimized performance through the FBI Protocol test when used in full-sized handguns.

All Critical DUTY® ammunition is loaded in nickel-plated cases for improved feeding and increased visibility in low-light situations and features waterproof sealant around the primer and the case mouth to provide superior performance no matter your environment.

*As defined by the “FBI Protocol” handgun ammunition test.

Critical DUTY® ammo is packaged in 50-count boxes for Law Enforcement.

Critical DEFENSE® = Backup Weapons/Off-Duty Carry

Critical DEFENSE® handgun ammunition is ideal for backup weapons, off-duty carry or for those serving in executive protection, undercover operations, or any dedicated close quarters situations.

Critical DEFENSE® provides controlled expansion while reducing the potential of over penetration. The patented FTX® bullet and associated Flex Tip® technology used in Critical DEFENSE® ammunition eliminates the clogging and inconsistent expansion and penetration that often plagues hollow point bullets.

All Critical DEFENSE® ammunition is loaded in nickel-plated cases for improved feeding and increased visibility in low-light situations. Critical DEFENSE® is unaffected by thick, heavy clothing (including denim and leather) and delivers superior controlled expansion with deep wound cavities over a wide range of velocities. Premium low-flash propellants have been specifically tailored for short-barreled handguns to deliver proven performance.
Critical Defense® handgun ammunition is built to meet the needs and requirements of individuals serving in undercover capacities and specialized assignments, including those providing executive protection in the law enforcement and tactical communities. Critical Defense ammo is a great option for those carrying backup handguns on and off duty, as well as law abiding citizens looking for concealed carry reliability.
Critical Defense® ammunition is optimized for executive protection, undercover operations, close quarters situations, or for use in backup weapons or off-duty carry.

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 ammo. But clothing — especially heavy clothing — has a lot to do with how the bullet expands upon impact. 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!

1. FTX® BULLET TECHNOLOGY
   The patented FTX® bullet will expand reliably.

2. OPTIMIZED PROPELLANTS
   Optimized propellants burn quickly, reduce recoil and limit muzzle flash to protect night vision.

3. NICKEL-PLATED CASE
   Nickel-plated cases resist tarnish and greatly enhance low-light chamber checks.
CRITICAL DEFENSE®
380 AUTO 90 gr. FTX®

ITEM NO. 90080

Performance Characteristics:
• High retained weight
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0118 lbs

CASE: 380 AUTO

• Manufacturer’s name (Hornady) and caliber designation (380 AUTO) imprinted on case head
• Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)

• Ballistic Coefficient: .099
• Sectional Density: .102
• Recommended Rifling
  Twist Rate: Performance achieved in 1:16” twist
• Push/Pull: 120/100

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Small pistol

BALLISTICS: 2¾” BBL | RUGER LCP

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<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tr>
<td>Total Penetration</td>
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<td>Max Cavity</td>
<td>1.6”</td>
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<td></td>
</tr>
<tr>
<td>Depth to Max Cavity</td>
<td>2.0”</td>
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<td></td>
</tr>
<tr>
<td>Initial Penetration</td>
<td>0.5”</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retained Weight</td>
<td>89.0 gr.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Retained Weight %</td>
<td>98%</td>
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<tr>
<td>Expanded Diameter</td>
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<td>Velocity (fps)</td>
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</table>

HEAVY CLOTHING

LOT NUMBERS

• Lot numbers on each box and case

PACKAGING

• Tray Number: 8418
• Box Weight: 0.57 lbs
• Gross Weight: 0.61 lbs
• 25 rounds per box with plastic tray
• Carton Number: 8453
• Carton Weight: 6.1 lbs
• Carton Dimensions: 2.875” x 5.25” x 10.75”
• 10 boxes per carton (250 rounds per carton)
CRITICAL DEFENSE®
9x18 MAKAROV 95 gr. FTX®

ITEM NO. 91000

Performance Characteristics:
• High retained weight
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0125 lbs

CASE: 9X18 MAKAROV

• Manufacturer’s name (Hornady) and caliber designation (9X18 MAKAROV) imprinted on case head
• Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)

• Ballistic Coefficient: .100
• Sectional Density: .102
• Recommended Rifling
  Twist Rate: Performance achieved in 1:9.45" twist
• Push/Pull: 75/125

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Small pistol

BALLISTICS: 3¾" BBL | MAKAROV M

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<thead>
<tr>
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<td>Max Cavity</td>
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</tr>
<tr>
<td>Depth to Max Cavity</td>
<td>2.5&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Initial Penetration</td>
<td>0.5&quot;</td>
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<td></td>
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<tr>
<td>Retained Weight</td>
<td>95.0 gr.</td>
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<tr>
<td>Retained Weight %</td>
<td>100%</td>
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<tr>
<td>Expanded Diameter</td>
<td>0.57&quot;</td>
<td></td>
<td></td>
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<tr>
<td>Velocity (fps)</td>
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BALLISTIC DATA

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<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tr>
<td>Velocity (fps)</td>
<td>1000</td>
<td>934</td>
<td>880</td>
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</table>

HEAVY CLOTHING

LOT NUMBERS

• Lot numbers on each box and case

PACKAGING

• Tray Number: 8418
• Box Weight: 0.62 lbs
• Gross Weight: 0.66 lbs
• 25 rounds per box with plastic tray
• Carton Number: 8453
• Carton Weight: 6.6 lbs
• Carton Dimensions: 2.875" x 5.25" x 10.75"
• 10 boxes per carton (250 rounds per carton)
**ITEM NO. 90240**

Performance Characteristics:
- High retained weight
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0125 lbs

**CASE: 9MM LUGER**

- Manufacturer’s name (Hornady) and caliber designation (9X18 MAKAROV) imprinted on case head
- Characteristics: Nickel plated

**BULLET: FTX® (Flex Tip eXpanding)**

- Ballistic Coefficient: .110
- Sectional Density: .113
- Recommended Rifling Twist Rate: Performance achieved in 1:10” twist
- Push/Pull: 150/125

**POWDER & PRIMER**

- Powder: Temperature stable with flash retardant
- Primer: Small pistol

**BALLISTICS: 3” BBL | KAHR MK9**

| Total Penetration | 9.25” |
| Max Cavity | 1.5” |
| Depth to Max Cavity | 3.0” |
| Initial Penetration | 0.5” |
| Retained Weight | 99.4 gr. |
| Retained Weight % | 99% |
| Expanded Diameter | 0.57” |
| Velocity (fps) | 1125 |

**BALLISTIC DATA**

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<th>Muzzle</th>
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<tr>
<td>Velocity (fps)</td>
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<td>1005</td>
<td>924</td>
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**HEAVY CLOTHING**

- Lot numbers on each box and case

**LOT NUMBERS**

- Tray Number: 8418
- Box Weight: 0.64 lbs
- Gross Weight: 0.68 lbs
- 25 rounds per box with plastic tray
- Carton Number: 8453
- Carton Weight: 6.8 lbs
- Carton Dimensions: 2.875” x 5.25” x 10.75”
- 10 boxes per carton (250 rounds per carton)

**PACKAGING**
ITEM NO. 90250

Performance Characteristics:
- High retained weight
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0179 lbs

CASE: 9MM LUGER
- Manufacturer's name (Hornady) and caliber designation (9MM LUGER) imprinted on case head
- Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)
- Ballistic Coefficient: .129
- Sectional Density: .130
- Recommended Rifling
  - Twist Rate: Performance achieved in 1:10” twist
- Push/Pull: 125/125

POWDER & PRIMER
- Powder: Temperature stable with flash retardant
- Primer: Pistol primer

BALLISTICS: 3” BBL | Kahr MK9

<table>
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<tr>
<th></th>
<th>11.25”</th>
<th>2.25”</th>
<th>2.25”</th>
<th>0.25”</th>
<th>115.0 gr.</th>
<th>100%</th>
<th>0.55”</th>
<th>1140</th>
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<tr>
<td>Max Cavity</td>
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<tr>
<td>Depth to Max Cavity</td>
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<tr>
<td>Initial Penetration</td>
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<tr>
<td>Retained Weight</td>
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<td>Retained Weight %</td>
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<tr>
<td>Velocity (fps)</td>
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BALLISTIC DATA

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<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tbody>
<tr>
<td></td>
<td>1140</td>
<td>1030</td>
<td>954</td>
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</table>

HEAVY CLOTHING

LOT NUMBERS
- Lot numbers on each box and case

PACKAGING
- Tray Number: 8418
- Box Weight: 0.70 lbs
- Gross Weight: 0.75 lbs
- 25 rounds per box with plastic tray
- Carton Number: 8453
- Carton Weight: 7.5 lbs
- Carton Dimensions: 2.875” x 5.25” x 10.75”
- 10 boxes per carton (250 rounds per carton)
CRITICAL DEFENSE®
38 SPECIAL 90 gr. FTX® LITE

ITEM NO. 90300

Performance Characteristics:
- High retained weight
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0175 lbs

CASE: 38 SPECIAL
- Manufacturer’s name (Hornady) and caliber designation (38 SPL) imprinted on case head
- Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)
- Ballistic Coefficient: .099
- Sectional Density: .101
- Recommended Rifling Twist Rate: Performance achieved in 1:18.75” twist
- Push/Pull: 80/100

POWDER & PRIMER
- Powder: Temperature stable with flash retardant
- Primer: Pistol primer

BALLISTICS: 1 7/8” BBL | SMITH & WESSON 637

<table>
<thead>
<tr>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8.25”</td>
<td>1.4”</td>
<td>3.0”</td>
<td>0.5”</td>
<td>89.0 gr.</td>
<td>98%</td>
<td>0.54”</td>
<td>1010</td>
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BALLISTIC DATA

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1200</td>
<td>1037</td>
</tr>
</tbody>
</table>

HEAVY CLOTHING
- Lot numbers on each box and case

LOT NUMBERS

PACKAGING
- Tray Number: 8418
- Box Weight: 0.66 lbs
- Gross Weight: 0.70 lbs
- 25 rounds per box with plastic tray
- Carton Number: 8453
- Carton Weight: 7.0 lbs
- Carton Dimensions: 2.875” x 5.25” x 10.75”
- 10 boxes per carton (250 rounds per carton)
CRITICAL DEFENSE®
38 SPECIAL 110 gr. FTX®

**ITEM NO. 90310**

**Performance Characteristics:**
- High retained weight
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0196 lbs

**CASE: 38 SPECIAL**
- Manufacturer’s name (Hornady) and caliber designation (38 SPL) imprinted on case head
- **Characteristics:** Nickel plated

**BULLET: FTX® (Flex Tip eXpanding)**
- **Ballistic Coefficient:** .131
- **Sectional Density:** .123
- **Recommended Rifling Twist Rate:** Performance achieved in 1:18.75" twist
- **Push/Pull:** 100/100

**BALLISTICS: 1 7/8" BBL | SMITH & WESSON 637**
- Total Penetration: 13.0"
- Max Cavity: 1.6"
- Depth to Max Cavity: 2.75"
- Initial Penetration: 0.25"
- Retained Weight: 110.0 gr.
- Retained Weight %: 100%
- Expanded Diameter: 0.50"
- Velocity (fps): 1010

**HEAVY CLOTHING**
- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1010</td>
<td>940</td>
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</tbody>
</table>

**PACKAGING**
- Tray Number: 8418
- Box Weight: 0.73 lbs
- Gross Weight: 0.77 lbs
- 25 rounds per box with plastic tray
- Carton Number: 8453
- Carton Weight: 7.7 lbs
- Carton Dimensions: 2.875" x 5.25" x 10.75"
- 10 boxes per carton (250 rounds per carton)
CRITICAL DEFENSE®
38 SPECIAL +P 110 gr. FTX®

ITEM NO. 90311

Performance Characteristics:
- High retained weight
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0204 lbs

CASE: 38 SPECIAL +P
- Manufacturer's name (Hornady) and caliber designation (38 SPL +P) imprinted on case head
- Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)
- Ballistic Coefficient: .131
- Sectional Density: .123
- Recommended Rifling
  Twist Rate: Performance achieved in 1:18.75" twist
- Push/Pull: 120/175

POWDER & PRIMER
- Powder: Temperature stable with flash retardant
- Primer: Pistol primer

BALLISTICS: 1 7/8" BBL | SMITH & WESSON 637

<table>
<thead>
<tr>
<th>Total Penetration</th>
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<tbody>
<tr>
<td>Max Cavity</td>
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<tr>
<td>Depth to Max Cavity</td>
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<td>Expanded Diameter</td>
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<td>Velocity (fps)</td>
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BALLISTIC DATA

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<tbody>
<tr>
<td>Muzzle</td>
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<tr>
<td>-------</td>
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<tr>
<td></td>
</tr>
</tbody>
</table>

HEAVY CLOTHING
- Lot numbers on each box and case

LOT NUMBERS

PACKAGING
- Tray Number: 8418
- Box Weight: 0.71 lbs
- Gross Weight: 0.76 lbs
- 25 rounds per box with plastic tray
- Carton Number: 8453
- Carton Weight: 7.6 lbs
- Carton Dimensions: 2.875" x 5.25" x 10.75"
- 10 boxes per carton (250 rounds per carton)
CRITICAL DEFENSE®
357 MAG 125 gr. FTX®

ITEM NO. 90500

Performance Characteristics:
- High retained weight
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0364 lbs

CASE: 357 MAG
- Manufacturer’s name (Hornady) and caliber designation (357 MAG) imprinted on case head
- Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)
- Ballistic Coefficient: .150
- Sectional Density: .140
- Recommended Rifling
  Twist Rate: Performance achieved in 1:18.75" twist
- Push/Pull: 150/150

BALLISTICS: 3” BBL | SMITH & WESSON 686

<table>
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<th>13.0”</th>
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<th>3.25”</th>
<th>0.25”</th>
<th>125.0 gr.</th>
<th>100%</th>
<th>0.61”</th>
<th>1500</th>
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<tr>
<td>Max Cavity</td>
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<tr>
<td>Depth to Max Cavity</td>
<td>0.25”</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Initial Penetration</td>
<td>125.0 gr.</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Retained Weight</td>
<td>100%</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Retained Weight %</td>
<td>0.61”</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Expanded Diameter</td>
<td>1500</td>
<td></td>
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</table>

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
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<tbody>
<tr>
<td>1500</td>
<td>1301</td>
<td>1147</td>
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HEAVY CLOTHING

<table>
<thead>
<tr>
<th>Lot Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lot numbers on each box and case</td>
</tr>
</tbody>
</table>

LOT NUMBERS

PACKAGING

- Tray Number: 8418
- Box Weight: 0.83 lbs
- Gross Weight: 0.88 lbs
- 25 rounds per box with plastic tray
- Carton Number: 8453
- Carton Weight: 8.8 lbs
- Carton Dimensions: 2.875” x 5.25” x 10.75”
- 10 boxes per carton (250 rounds per carton)
CRITICAL DEFENSE®
40 S&W 165 gr. FTX®

ITEM NO. 91340

Performance Characteristics:
• High retained weight
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0217 lbs

CASE: 40 S&W

• Manufacturer’s name (Hornady) and caliber designation (40 S&W) imprinted on case head
• Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)

• Ballistic Coefficient: .145
• Sectional Density: .147
• Recommended Rifling
  Twist Rate: Performance achieved in 1:16” twist
• Push/Pull: 100/100

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Pistol primer

BALLISTICS: 3” BBL | SPRINGFIELD XD 40C

Total Penetration: 11.5”
Max Cavity: 2.75”
Depth to Max Cavity: 3.5”
Initial Penetration: 0.75”
Retained Weight: 165.0 gr.
Retained Weight %: 100%
Expanded Diameter: 0.68”
Velocity (fps): 1045

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1175</td>
<td>1066</td>
</tr>
</tbody>
</table>

HEAVY CLOTHING

LOT NUMBERS

• Lot numbers on each box and case

PACKAGING

• Tray Number: 8409
• Box Weight: 0.75 lbs
• Gross Weight: 0.80 lbs
• 20 rounds per box with plastic tray
• Carton Number: 8454
• Carton Weight: 8.0 lbs
• Carton Dimensions: 3.375” x 5.310” x 10.75”
• 10 boxes per carton (200 rounds per carton)
CRITICAL DEFENSE®
44 SPECIAL 165 gr. FTX®

ITEM NO. 90700

Performance Characteristics:
- High retained weight
- Proven terminal performance
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0286 lbs

CASE: 44 SPECIAL
- Manufacturer’s name (Hornady) and caliber designation (44 SPL) imprinted on case head
- Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)
- Ballistic Coefficient: .125
- Sectional Density: .128
- Recommended Rifling
  Twist Rate: Performance achieved in 1:20” twist
- Push/Pull: 100/100

POWDER & PRIMER
- Powder: Temperature stable with flash retardant
- Primer: Pistol primer

BALLISTICS: 2½” BBL | SMITH & WESSON 329 PD

<table>
<thead>
<tr>
<th>Total Penetration</th>
<th>9.75”</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max Cavity</td>
<td>2.0”</td>
</tr>
<tr>
<td>Depth to Max Cavity</td>
<td>3.0”</td>
</tr>
<tr>
<td>Initial Penetration</td>
<td>0.5”</td>
</tr>
<tr>
<td>Retained Weight</td>
<td>164.0 gr.</td>
</tr>
<tr>
<td>Retained Weight %</td>
<td>99%</td>
</tr>
<tr>
<td>Expanded Diameter</td>
<td>0.70”</td>
</tr>
<tr>
<td>Velocity (fps)</td>
<td>900</td>
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</table>

HEAVY CLOTHING

LOT NUMBERS
- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>900</td>
<td>848</td>
</tr>
</tbody>
</table>

PACKAGING

- Tray Number: 8409
- Box Weight: 0.86 lbs
- Gross Weight: 0.91 lbs
- 20 rounds per box with plastic tray
- Carton Number: 8454
- Carton Weight: 9.1 lbs
- Carton Dimensions: 3.375” x 5.310” x 10.75”
- 10 boxes per carton (200 rounds per carton)
CRITICAL DEFENSE®
45 AUTO 185 gr. FTX®

ITEM NO. 90900
Performance Characteristics:
• High retained weight
• Proven terminal performance
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0217 lbs

CASE: 45 AUTO
• Manufacturer’s name (Hornady) and caliber designation (45 AUTO) imprinted on case head
• Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)
• Ballistic Coefficient: .140
• Sectional Density: .130
• Recommended Rifling
  Twist Rate: Performance achieved in 1:16” twist
• Push/Pull: 75/75

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Pistol primer

BALLISTICS: 3” BBL | SPRINGFIELD EMP
Total Penetration 13.75”
Max Cavity 2.25”
Depth to Max Cavity 3.5”
Initial Penetration 0.75”
Retained Weight 184.0 gr.
Retained Weight % 99%
Expanded Diameter 0.66”
Velocity (fps) 1000

BALLISTIC DATA
<table>
<thead>
<tr>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1000</td>
<td>936</td>
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</tbody>
</table>

HEAVY CLOTHING

LOT NUMBERS
• Lot numbers on each box and case

PACKAGING
• Tray Number: 8409
• Box Weight: 0.83 lbs
• Gross Weight: 0.88 lbs
• 20 rounds per box with plastic tray
• Carton Number: 8454
• Carton Weight: 8.8 lbs
• Carton Dimensions: 3.375” x 5.310” x 10.75”
• 10 boxes per carton (200 rounds per carton)
Performance Characteristics:
- High retained weight
- Proven terminal performance
- MADE IN THE US
- Net Explosive Weight (approx. per box): 0.0277 lbs

CASE: 45 COLT
- Manufacturer’s name (Hornady) and caliber designation (45 COLT) imprinted on case head
- Characteristics: Nickel plated

BULLET: FTX® (Flex Tip eXpanding)
- Ballistic Coefficient: .140
- Sectional Density: .130
- Recommended Rifling
  Twist Rate: Performance achieved in 1:16” twist
- Push/Pull: 150/100

POWDER & PRIMER
- Powder: Temperature stable with flash retardant
- Primer: Pistol primer

BALLISTICS: 3” BBL | TAURUS JUDGE

<table>
<thead>
<tr>
<th></th>
<th>11.25”</th>
<th>2.0”</th>
<th>3.5”</th>
<th>0.75”</th>
<th>184.0 gr.</th>
<th>99%</th>
<th>0.74”</th>
<th>910</th>
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<td>Total Penetration</td>
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<tr>
<td>Depth to Max Cavity</td>
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<td>Retained Weight</td>
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<tr>
<td>Retained Weight %</td>
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<tr>
<td>Expanded Diameter</td>
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<td>Velocity (fps)</td>
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BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>920</td>
<td>870</td>
<td>826</td>
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</tbody>
</table>

LOT NUMBERS
- Lot numbers on each box and case

PACKAGING
- Tray Number: 8409
- Box Weight: 0.94 lbs
- Gross Weight: 1.0 lbs
- 20 rounds per box with plastic tray
- Carton Number: 8454
- Carton Weight: 10.0 lbs
- Carton Dimensions: 3.375” x 5.310” x 10.75”
- 10 boxes per carton (200 rounds per carton)
Thank you for participating in our Member Tested and Recommended Program. The **380 AUTO 90 grain FTX Critical Defense Cartridges** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.42**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The **9mm Luger Critical Defense 115 gr FTX Cartridges** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.65**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Remington® Hornady® 223 Rem TAP® loads are a unique offering to law enforcement professionals that combine reliable functioning with consistent performance, low muzzle signature, and exceptional accuracy in cannelured and crimped 55, 60 and 62 gr. bullets, and a 75 gr. load offering match accuracy. This ammunition features clean burning propellants and enhanced terminal performance, with rapid expansion and bullet fragmentation. These highly effective bullets will penetrate soft body armor making them an excellent choice for patrol rifle programs and SWAT teams.

This line of ammunition is intended for Law Enforcement sales ONLY.
ITEM NO. 80295

Performance Characteristics:
- Meets FBI Protocol penetration requirements
- Large wound cavities
- "Barrier blind"
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0783 lbs

CASE: 223 REM

- Manufacturer's name (Hornady) and caliber designation (223 REM) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: GMX®

- Ballistic Coefficient: .170
- Sectional Density: .151
- Bullet Length: 0.815"
- Recommended Rifling
  Twist Rate: 1:7" to 1:10"
- Characteristics: Tipped, copper alloy with cannelure
- Push/Pull: 50/50

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Small rifle, staked primer pocket

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>3350</td>
<td>2770</td>
<td>2260</td>
<td>1808</td>
<td>1426</td>
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<tr>
<td>Energy (ft lbs)</td>
<td>1321</td>
<td>903</td>
<td>601</td>
<td>385</td>
<td>239</td>
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<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-3.1</td>
<td>-13.1</td>
<td>-34.0</td>
</tr>
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</table>

PACKAGING

- Tray: Item No. 8407
- Box Weight: 0.57 lbs
- Gross Weight: 0.62 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 8420
- Carton Weight: 6.2 lbs
- Carton Dimensions: 5.0" x 5.25" x 7.0"
- 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>16.0&quot;</td>
<td>5.0&quot;</td>
<td>3.0&quot;</td>
<td>0.5&quot;</td>
<td>52.0 gr</td>
<td>98%</td>
<td>0.50&quot;</td>
<td>3010</td>
</tr>
<tr>
<td>STEEL</td>
<td>15.0&quot;</td>
<td>4.5&quot;</td>
<td>4.0&quot;</td>
<td>0.0&quot;</td>
<td>50.4 gr</td>
<td>92%</td>
<td>0.33&quot;</td>
<td>3027</td>
</tr>
<tr>
<td>WALLBOARD</td>
<td>16.0&quot;</td>
<td>4.5&quot;</td>
<td>4.0&quot;</td>
<td>0.0&quot;</td>
<td>50.1 gr</td>
<td>91%</td>
<td>0.48&quot;</td>
<td>3030</td>
</tr>
<tr>
<td>PLYWOOD</td>
<td>16.0&quot;</td>
<td>4.5&quot;</td>
<td>4.0&quot;</td>
<td>0.0&quot;</td>
<td>22.0 gr</td>
<td>40%</td>
<td>0.28&quot;</td>
<td>3014</td>
</tr>
<tr>
<td>AUTO GLASS</td>
<td>13.25&quot;</td>
<td>4.0&quot;</td>
<td>2.0&quot;</td>
<td>0.0&quot;</td>
<td>39.4 gr</td>
<td>72%</td>
<td>0.42&quot;</td>
<td>3025</td>
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</table>
## 223 REM
### 53 gr. GMX® TAP® PATROL

<table>
<thead>
<tr>
<th>Item #80295</th>
<th>14.5&quot; Colt® M4 Carbine 1:7&quot;</th>
<th>16&quot; Colt® Law Enforcement Carbine 1:7&quot;</th>
<th>16&quot; Daniel Defense 1:7&quot;</th>
<th>24&quot; SAAMI 223 Rem. Test Barrel 1:12&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Muzzle</td>
<td>100 yds</td>
<td>200 yds</td>
<td>300 yds</td>
</tr>
<tr>
<td>Velocity (fps)</td>
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<tr>
<td>2959</td>
<td>2427</td>
<td>1954</td>
<td>1546</td>
<td>1227</td>
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<tr>
<td>Energy (ft lbs)</td>
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<tr>
<td>1030</td>
<td>693</td>
<td>449</td>
<td>281</td>
<td>177</td>
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<tr>
<td>Trajectory (inches)</td>
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<td></td>
</tr>
<tr>
<td>-2.5</td>
<td>0.0</td>
<td>-3.5</td>
<td>-16.3</td>
<td>-43.9</td>
</tr>
</tbody>
</table>

*Test data used on packaging label*
223 REM
55 gr. TAP URBAN®

ITEM NO. 83276

Performance Characteristics:
• Match accurate
• Rapid fragmentation
• Optimum for entry/CQB use to mitigate over penetration
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0706 lbs

CASE: 223 REMINGTON

• Manufacturer’s name (Hornady) and caliber designation (223 REM) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: TAP URBAN®

• Ballistic Coefficient: .255
• Sectional Density: .157
• Bullet Length: 0.813”
• Recommended Rifling Twist Rate: 1:7” to 1:12”
• Characteristics: Polymer tipped, fragmenting with cannelure
• Push/Pull: 50/60

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Small rifle, staked primer pocket

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>3229</td>
<td>2844</td>
<td>2491</td>
<td>2164</td>
<td>1863</td>
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<tr>
<td>Energy (ft lbs)</td>
<td>1273</td>
<td>988</td>
<td>758</td>
<td>572</td>
<td>424</td>
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<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-2.8</td>
<td>-11.3</td>
<td>-27.2</td>
</tr>
</tbody>
</table>

PACKAGING

• Tray: Item No. 8407
• Box Weight: 0.56 lbs
• Gross Weight: 0.60 lbs
• 20 rounds per box with plastic tray
• Carton: Item No. 8420
• Carton Weight: 6.0 lbs
• Carton Dimensions: 5.0” x 5.25” x 7.0”
• 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>10.0&quot;</td>
<td>4.5&quot;</td>
<td>5.0&quot;</td>
<td>0.5&quot;</td>
<td>24.1 gr.</td>
<td>44%</td>
<td>0.37&quot;</td>
<td>2981</td>
</tr>
<tr>
<td>Wallboard</td>
<td>7.5&quot;</td>
<td>3.5&quot;</td>
<td>3.5&quot;</td>
<td>0.75&quot;</td>
<td>16.6 gr.</td>
<td>30%</td>
<td>0.49&quot;</td>
<td>2993</td>
</tr>
<tr>
<td>Plywood</td>
<td>10.0&quot;</td>
<td>3.75&quot;</td>
<td>3.5&quot;</td>
<td>0.0&quot;</td>
<td>22.5 gr.</td>
<td>41%</td>
<td>0.37&quot;</td>
<td>2901</td>
</tr>
<tr>
<td>Auto Glass</td>
<td>4.0&quot;</td>
<td>3.5&quot;</td>
<td>2.0&quot;</td>
<td>0.0&quot;</td>
<td>0.0 gr.</td>
<td>0%</td>
<td>0.0&quot;</td>
<td>2945</td>
</tr>
</tbody>
</table>

This bullet fragments completely when encountering this barrier.
### Item #83276

<table>
<thead>
<tr>
<th>Tube Length</th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10.5” Noveske® CQB 1:7”</strong></td>
<td>Velocity (fps)</td>
<td>2656</td>
<td>2317</td>
<td>2004</td>
<td>1719</td>
<td>1466</td>
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<tr>
<td></td>
<td>Energy (ft lbs)</td>
<td>861</td>
<td>656</td>
<td>491</td>
<td>361</td>
<td>263</td>
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<tr>
<td></td>
<td>Trajectory (inches)</td>
<td>-2.5</td>
<td>2.0</td>
<td>0.0</td>
<td>-10.7</td>
<td>-33.3</td>
</tr>
<tr>
<td><strong>11.5” Bushmaster® XM15-E2S 1:9”</strong></td>
<td>Velocity (fps)</td>
<td>2773</td>
<td>2426</td>
<td>2104</td>
<td>1809</td>
<td>1545</td>
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<tr>
<td></td>
<td>Energy (ft lbs)</td>
<td>939</td>
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<td><strong>14.5” Colt® M4 Carbine 1:7”</strong></td>
<td>Velocity (fps)</td>
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<td>2619</td>
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*Test data used on packaging label*
ITEM NO. 83295

Performance Characteristics:
- High weight retention
- Large wound cavities
- "Barrier blind"
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0709 lbs

CASE: 223 REMINGTON

- Manufacturer's name (Hornady) and caliber designation (223 REM) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: TAP URBAN®

- Ballistic Coefficient: .245
- Sectional Density: .157
- Bullet Length: 0.832"
- Recommended Rifling
  Twist Rate: 1:7" to 1:10"
- Characteristics: Hollow point, copper alloy with cannelure
- Push/Pull: 125/75

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Small rifle, staked primer pocket

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
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PACKAGING

- Tray: Item No. 8407
- Box Weight: 0.56 lbs
- Gross Weight: 0.61 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 8420
- Carton Weight: 6.1 lbs
- Carton Dimensions: 5.0" x 5.25" x 7.0"
- 10 boxes per carton | 200 rounds per carton
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<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
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<td>4.0&quot;</td>
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*Test data used on packaging label*
223 REM
60 gr. TAP URBAN®

ITEM NO. 83286
Performance Characteristics:
• Low retained weight
• Match accurate
• Rapid fragmentation
• Great option for entry/CQB use to mitigate over penetration
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0729 lbs

CASE: 223 REMINGTON
• Manufacturer’s name (Hornady) and caliber designation (223 REM) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: TAP URBAN®
• Ballistic Coefficient: .265
• Sectional Density: .171
• Bullet Length: 0.873”
• Recommended Rifling Twist Rate: 1:7” to 1:12”
• Characteristics: Match grade, polymer tipped, fragmenting with cannelure
• Push/Pull: 50/60

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small rifle, staked primer pocket

LOT NUMBERS
• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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PACKAGING
• Tray: Item No. 8407
• Box Weight: 0.58 lbs
• Gross Weight: 0.62 lbs
• 20 rounds per box with plastic tray
• Carton: Item No. 8420
• Carton Weight: 6.2 lbs
• Carton Dimensions: 5.0” x 5.25” x 7.0”
• 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
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<tbody>
<tr>
<td><strong>BARE GELATIN</strong></td>
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<td>5.25”</td>
<td>6.25”</td>
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<td>20.2 gr.</td>
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<td><strong>STEEL</strong></td>
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<td>0.0 gr.</td>
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<td><strong>WALLBOARD</strong></td>
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<td>3.0”</td>
<td>1.25”</td>
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<td>22.3 gr.</td>
<td>37%</td>
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<td><strong>PLYWOOD</strong></td>
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<td>4.25”</td>
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<td>0.0 gr.</td>
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<td>0.0 gr.</td>
<td>0%</td>
<td>0.0”</td>
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This bullet fragments completely when encountering this barrier.
## 223 REM
### 60 gr. TAP URBAN®

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<table>
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<th>Muzzle</th>
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<th>200 yds</th>
<th>300 yds</th>
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<table>
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<th>18.5&quot; Ruger® Mini 14&quot; 1:9&quot;</th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tr>
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<td>2548</td>
<td>2229</td>
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<td>Energy (ft lbs)</td>
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<td>865</td>
<td>662</td>
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<td>700</td>
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<table>
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<th>200 yds</th>
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<td>2119</td>
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<td>786</td>
<td>598</td>
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<td>331</td>
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</table>

*Test data used on packaging label*
223 REM
62 gr. TAP® BARRIER™

ITEM NO. 83285

Performance Characteristics:
- Large wound cavities
- High weight retention
- Designed for effective use in penetrating fire doors and steel barriers
- Accurate in all 223 REM & 5.56 NATO twist rates
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1786 lbs

CASE: 223 REMINGTON

- Manufacturer's name (Hornady) and caliber designation (223 REM) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: TAP® BARRIER™

- Ballistic Coefficient: .264
- Sectional Density: .176
- Bullet Length: 0.795"
- Recommended Rifling
  Twist Rate: 1:7" to 1:12"
- Characteristics: Soft point, barrier with cannelure
- Push/Pull: 50/50

BULLET SCALE 1:1

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Small rifle, staked primer pocket

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
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<tbody>
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<td>2075</td>
<td>1791</td>
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<td>-30.2</td>
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PACKAGING

- Tray: Item No. 8407
- Box Weight: 0.58 lbs
- Gross Weight: 0.62 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 8420
- Carton Weight: 6.2 lbs
- Carton Dimensions: 5.0" x 5.25" x 7.0"
- 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth &amp; Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
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<tbody>
<tr>
<td>Bare Gelatin</td>
<td>13.75&quot;</td>
<td>4.5&quot;</td>
<td>4.75&quot;</td>
<td>0.25&quot;</td>
<td>43.6 gr.</td>
<td>70%</td>
<td>0.46&quot;</td>
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<tr>
<td>Steel</td>
<td>11.0&quot;</td>
<td>4.0&quot;</td>
<td>3.5&quot;</td>
<td>0.0&quot;</td>
<td>39.8 gr.</td>
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<td>Wallboard</td>
<td>12.75&quot;</td>
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<td>4.0&quot;</td>
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<td>Plywood</td>
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<td>5.0&quot;</td>
<td>5.0&quot;</td>
<td>0.5&quot;</td>
<td>52.7 gr.</td>
<td>85%</td>
<td>0.45&quot;</td>
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<td>Auto Glass</td>
<td>6.0&quot;</td>
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<td>2.75&quot;</td>
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<td>20.4 gr.</td>
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## 223 REM
### 62 gr. TAP® BARRIER™

**Item #83285**

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<tbody>
<tr>
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<td>1879</td>
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<td>-82.2</td>
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<td>Muzzle</td>
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<td>1977</td>
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<td>Velocity (fps)</td>
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<td>713</td>
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<td>2404</td>
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<td>2134</td>
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<td>2219</td>
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<td>2385</td>
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<td>1.6</td>
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<td>-23.7</td>
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</table>

*Test data used on packaging label*
223 REM
75 gr. BTHP TAP®

ITEM NO. 80265

Performance Characteristics:
- Match accurate
- Perfect for sniper use
- Large wound cavities
- Max fragmentation for low retained weight
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1714 lbs

CASE: 223 REMINGTON

- Manufacturer's name (Hornady) and caliber designation (223 REM) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: TAP® BARRIER™

- Ballistic Coefficient: .395
- Sectional Density: .214
- Bullet Length: 0.983"
- Recommended Rifling Twist Rate: 1:7" to 1:9"
- Characteristics: Boat tail hollow point with cannelure
- Push/Pull: 75/60

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Small rifle, staked primer pocket

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tbody>
<tr>
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<td>Energy (ft lbs)</td>
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<td>1094</td>
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<td>-31.7</td>
<td>-58.7</td>
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PACKAGING

- Tray: Item No. 8407
- Box Weight: 0.61 lbs
- Gross Weight: 0.66 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 8420
- Carton Weight: 6.6 lbs
- Carton Dimensions: 5.0" x 5.25" x 7.0"
- 10 boxes per carton | 200 rounds per carton
| Material       | Total Penetration | Max Cavity | Depth to Max Cavity | Initial Penetration | Retained Weight | Retained Weight % | Expanded Diameter | Velocity (fps) |
|---------------|------------------|------------|---------------------|---------------------|----------------|-------------------|------------------|----------------|---------------|
| BARE GELATIN  | 12.5"            | 5.25"      | 5.0"                | 1.0"                | 27.0 gr.       | 36%               | 0.45"            | 2542           |
| STEEL         | 9.75"            | 3.25"      | 3.25"               | 0.0"                | 0.0 gr.        | 0%                | 0.0"             | 2563           |
| WALLBOARD     | 11.75"           | 4.0"       | 3.75"               | 1.0"                | 33.0 gr.       | 44%               | 0.42"            | 2578           |
| PLYWOOD       | 13.0"            | 5.0"       | 6.25"               | 0.75"               | 38.4 gr.       | 51%               | 0.47"            | 2544           |
| AUTO GLASS    | 5.5"             | 4.5"       | 2.5"                | 0.0"                | 0.0 gr.        | 0%                | 0.0"             | 2569           |

This bullet fragments completely when encountering this barrier.
<table>
<thead>
<tr>
<th>Item #80265</th>
<th>10.5&quot; Noveske® CQB 1:7&quot;</th>
<th>Muzzle</th>
<th>100 yds</th>
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<th>300 yds</th>
<th>400 yds</th>
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<td>Energy (ft lbs)</td>
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<table>
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<th>Muzzle</th>
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<th>200 yds</th>
<th>300 yds</th>
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<table>
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<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
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<th>200 yds</th>
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<th>400 yds</th>
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<td>771</td>
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<table>
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<tr>
<th>20&quot; Bushmaster® XM15-E2S 1:7&quot;</th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tr>
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<td>2453</td>
<td>2242</td>
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<table>
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<tr>
<th>*24&quot; SAAMI 223 Rem. Test Barrel 1:12&quot;</th>
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<td>Energy (ft lbs)</td>
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<td>1094</td>
<td>917</td>
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<td>516</td>
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<td>1.9</td>
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<td>-24.1</td>
<td>-49.1</td>
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</tbody>
</table>

*Test data used on packaging label*
These x-rays reflect the damage upon impact at close range.
(Information provided by Medical Examiner)
Member Tested and Recommended Program

Thank you for participating in our Member Tested and Recommended Program. The **223 REM 55 gr TAP Urban Cartridges** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.82**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Member Tested and Recommended Program

Thank you for participating in our “Member Tested and Recommended Program.” The **223 REM 55 GR GMX** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.93**. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in *The Tactical Edge* journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program®.

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our “Member Tested and Recommended Program.” The **223 REM 60 GR TAP Urban** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.5**. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in *The Tactical Edge* journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
Member Tested and Recommended Program

Thank you for participating in our “Member Tested and Recommended Program.” The **223 REM 62 GR TAP Barrier** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.37**. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in *The Tactical Edge* journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our “Member Tested and Recommended Program.” The 223 REM 75 GR BTHP TAP has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.69. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in The Tactical Edge journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program®.

Thank you,

Corey Luby
800-279-9127x120
The dimensions above are from Pacific Tool and SAAMI. Dimensions in inches unless noted. The main differences between the two are the freebore length, lead diameter and throat angle.
5.56 x 45mm NATO

Hornady Product Summary

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

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.

This line of ammunition is intended for Law Enforcement sales ONLY.

B.C. = Ballistic Coefficient
5.56 NATO
53 gr. GMX® TAP PATROL™

ITEM NO. 81275

Performance Characteristics:
- Meets FBI Protocol penetration requirements
- Large wound cavities
- "Barrier blind"
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0783 lbs

CASE: 5.56 NATO
- Manufacturer's name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
- Characteristics: Match grade brass composite

SCALE 1:1

BULLET: GMX®
- Ballistic Coefficient: .170
- Sectional Density: .151
- Bullet Length: 0.815"
- Recommended Rifling Twist Rate: 1:7" to 1:10"
- Characteristics: Tipped, copper alloy with cannelure
- Push/Pull: 50/75

LOT NUMBERS
- Lot numbers on each box and case

POWDER & PRIMER
- Powder: Increased powder charge to NATO specifications and pressure peak, temperature stable with flash retardant
- Primer: Small rifle milspec primer, staked primer pocket, sealed primer

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
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<td>2221</td>
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<td>Energy (ft lbs)</td>
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<td>-13.7</td>
<td>-35.4</td>
<td>-75.1</td>
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</table>

PACKAGING

- Tray: Item No. 8407
- Box Weight: 0.57 lbs
- Gross Weight: 0.62 lbs
- 20 rounds per box with plastic tray

- Carton: Item No. 8420
- Carton Weight: 6.2 lbs
- Carton Dimensions: 5.0" x 5.25" x 7.0"
- 10 boxes per carton | 200 rounds per carton
| BARE GELATIN | 16.0" | 4.0" | 4.0" | 0.5" | 51.2 gr | 97%  | 0.48" | 3169 |
| STEEL | 15.25" | 5.0" | 4.25" | 0.0" | 49.8 gr | 94%  | 0.36" | 3143 |
| WALLBOARD | 13.5" | 4.75" | 3.5" | 0.0" | 23.1 gr | 44%  | 0.42" | 3161 |
| PLYWOOD | 14.0" | 4.5" | 3.0" | 0.0" | 26.3 gr | 50%  | 0.36" | 3170 |
| AUTO GLASS | 15.0" | 3.0" | 2.5" | 0.0" | 43.8 gr | 80%  | 0.40" | 3156 |
5.56 NATO
53 gr. GMX® TAP® PATROL

<table>
<thead>
<tr>
<th>Item #81275</th>
<th>11.5&quot; Colt 1:9&quot;</th>
<th>14.5&quot; Colt® M4 Carbine 1:7&quot;</th>
<th>16&quot; Colt® Law Enforcement Carbine 1:7&quot;</th>
<th>16&quot; Daniel Defense 1:7&quot;</th>
<th>*20&quot; 5.56x45mm NATO Test Barrel 1:7&quot;</th>
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<tbody>
<tr>
<td>Muzzle</td>
<td>100 yds</td>
<td>200 yds</td>
<td>300 yds</td>
<td>400 yds</td>
<td>500 yds</td>
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<td>Velocity (fps)</td>
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<td>2364</td>
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<td>400 yds</td>
<td>500 yds</td>
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<td>300 yds</td>
<td>400 yds</td>
<td>500 yds</td>
</tr>
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<td>Velocity (fps)</td>
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<td>1282</td>
<td>875</td>
<td>581</td>
<td>370</td>
<td>230</td>
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<td>Trajectory (inches)</td>
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<td>-3.2</td>
<td>-13.7</td>
<td>-35.4</td>
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*Test data used on packaging label
5.56 NATO
55 gr. GMX® TAP® BARRIER™

ITEM NO. 81255

Performance Characteristics:
• High weight retention
• Large wound cavities
• Deep penetration
• "Barrier blind"
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0783 lbs

CASE: 5.56 NATO

• Manufacturer’s name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: GMX®

• Ballistic Coefficient: .245
• Sectional Density: .157
• Bullet Length: 0.832"
• Recommended Rifling
  Twist Rate: 1:7" to 1:10"
• Characteristics: Hollow point, copper alloy with cannelure
• Push/Pull: 50/75

POWDER & PRIMER

• Powder: Increased powder charge to NATO specifications and pressure peak, temperature stable with flash retardant
• Primer: Small rifle milspec primer, staked primer pocket, sealed primer

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

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<thead>
<tr>
<th>Velocity (fps)</th>
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PACKAGING

• Tray: Item No. 8407
• Box Weight: 0.57 lbs
• Gross Weight: 0.62 lbs
• 20 rounds per box with plastic tray

• Carton: Item No. 8420
• Carton Weight: 6.2 lbs
• Carton Dimensions: 5.0" x 5.25" x 7.0"
• 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>17.0&quot;</td>
<td>4.0&quot;</td>
<td>5.0&quot;</td>
<td>1.0&quot;</td>
<td>55.0 gr</td>
<td>100%</td>
<td>0.50&quot;</td>
<td>3093</td>
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<tr>
<td>Steel</td>
<td>20.0&quot;</td>
<td>4.0&quot;</td>
<td>6.25&quot;</td>
<td>0.0&quot;</td>
<td>54.8 gr</td>
<td>100%</td>
<td>0.22&quot;</td>
<td>2973</td>
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<tr>
<td>Wallboard</td>
<td>17.0&quot;</td>
<td>5.0&quot;</td>
<td>4.75&quot;</td>
<td>0.5&quot;</td>
<td>55.0 gr</td>
<td>100%</td>
<td>0.22&quot;</td>
<td>2971</td>
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<td>Plywood</td>
<td>21.0&quot;</td>
<td>4.75&quot;</td>
<td>6.0&quot;</td>
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<td>4.75&quot;</td>
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<td>43.8 gr</td>
<td>80%</td>
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# 5.56 NATO
## 55 gr. GMX® TAP® BARRIER™

<table>
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<tr>
<th>Item #81255</th>
<th>10.4&quot; Heckler &amp; Koch HK416 1:7&quot;</th>
<th>11.5&quot; Bushmaster® XM15-E2S 1:9&quot;</th>
<th>14.5&quot; Colt® M4 Carbine 1:7&quot;</th>
<th>16&quot; Colt® Law Enforcement Carbine 1:7&quot;</th>
<th>18.5&quot; Ruger® Mini 14® 1:9&quot;</th>
<th>20&quot; 5.56x45mm NATO Test Barrel 1:7&quot;</th>
<th>20&quot; Bushmaster® XM15-E2S 1:7&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Muzzle</td>
<td>100 yds</td>
<td>200 yds</td>
<td>300 yds</td>
<td>400 yds</td>
<td>500 yds</td>
<td>Muzzle</td>
</tr>
<tr>
<td>Velocity (fps)</td>
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<td>2053</td>
<td>1751</td>
<td>1485</td>
<td>1264</td>
<td>2985</td>
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<td>694</td>
<td>515</td>
<td>375</td>
<td>269</td>
<td>195</td>
<td>1088</td>
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<td>Trajectory (inches)</td>
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<td>1.8</td>
<td>0.0</td>
<td>-10.2</td>
<td>-31.8</td>
<td>-69.3</td>
<td>-2.5</td>
</tr>
</tbody>
</table>

*Test data used on packaging label*
**5.56 NATO**

**62 gr. TAP® BARRIER™**

**ITEM NO. 8125N**

Performance Characteristics:
- Large wound cavities
- High weight retention
- Designed for effective use in penetrating fire doors and steel barriers
- Accurate in all 5.56 NATO twist rates
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0771 lbs

**CASE: 5.56 NATO**

- Manufacturer’s name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
- **Characteristics:** Match grade brass composite

**BULLET: TAP® BARRIER™**

- Ballistic Coefficient: .264
- Sectional Density: .176
- Bullet Length: 0.795”
- Recommended Rifling Twist Rate: 1:7” to 1:12”
- **Characteristics:** Soft point, barrier with cannelure
- Push/Pull: 100/70

**POWDER & PRIMER**

- **Powder:** Increased powder charge to NATO specifications and pressure peak, temperature stable with flash retardant
- **Primer:** Small rifle milspec primer, staked primer pocket, sealed primer

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
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<tr>
<th>Velocity (fps)</th>
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<tr>
<td>Energy (ft lbs)</td>
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<tr>
<td>Trajectory (in)</td>
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<td>0</td>
<td>-3.2</td>
<td>-12.6</td>
<td>-30.1</td>
<td>-58.5</td>
</tr>
</tbody>
</table>

**PACKAGING**

- **Tray:** Item No. 8407
- **Box Weight:** 0.58 lbs
- **Gross Weight:** 0.63 lbs
- 20 rounds per box with plastic tray

- **Carton:** Item No. 8420
- **Carton Weight:** 6.3 lbs
- **Carton Dimensions:** 5.0” x 5.25” x 7.0”
- 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>11.75”</td>
<td>5.5”</td>
<td>4.75”</td>
<td>.75”</td>
<td>45.1 gr.</td>
<td>73%</td>
<td>.54”</td>
<td>2910</td>
</tr>
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<td>Steel</td>
<td>11.0”</td>
<td>4.5”</td>
<td>4.0”</td>
<td>0.0”</td>
<td>34.7 gr.</td>
<td>56%</td>
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</tr>
<tr>
<td>Wallboard</td>
<td>12.75”</td>
<td>3.75”</td>
<td>4.5”</td>
<td>.75”</td>
<td>42.1 gr.</td>
<td>68%</td>
<td>0.48”</td>
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<td>54%</td>
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<td>29%</td>
<td>0.40”</td>
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## 5.56 NATO

### 62 gr. TAP® BARRIER™

**Item #8125N**

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<th>100 yds</th>
<th>200 yds</th>
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<th>400 yds</th>
<th>500 yds</th>
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</table>

*Test data used on packaging label*
5.56 NATO
62 gr. TAP® BARRIER™

ITEM NO. 8125C

Performance Characteristics:
• Large wound cavities
• High weight retention
• Designed for effective use in penetrating fire doors and steel barriers
• Accurate in all 5.56 NATO twist rates
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.1929 lbs

CASE: 5.56 NATO

• Manufacturer's name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: TAP® BARRIER™

• Ballistic Coefficient: .264
• Sectional Density: .176
• Bullet Length: 0.795"
• Recommended Rifling Twist Rate: 1:7” to 1:12”
• Characteristics: Soft point, barrier with cannelure
• Push/Pull: 100/70

POWDER & PRIMER

• Powder: Increased powder charge to NATO specifications and pressure peak, temperature stable with flash retardant
• Primer: Small rifle milspec primer, staked primer pocket, sealed primer

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
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<tbody>
<tr>
<td>Velocity (fps)</td>
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<td>783</td>
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<td>-58.5</td>
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</tbody>
</table>

PACKAGING

• Tray: Item No. 5701
• Box Weight: 1.37 lbs
• Gross Weight: 1.47 lbs
• 50 rounds per box with plastic tray
• Carton: Item No. 5747
• Carton Weight: 14.7 lbs
• Carton Dimensions: 5.625” x 5.937” x 14.75”
• 10 boxes per carton | 500 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth &amp; Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
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</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>11.75&quot;</td>
<td>5.5&quot;</td>
<td>4.75&quot;</td>
<td>.75&quot;</td>
<td>45.1 gr.</td>
<td>73%</td>
<td>.54&quot;</td>
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<tr>
<td>STEEL</td>
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<td>4.5&quot;</td>
<td>4.0&quot;</td>
<td>0.0&quot;</td>
<td>34.7 gr.</td>
<td>56%</td>
<td>0.43&quot;</td>
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<tr>
<td>WALLBOARD</td>
<td>12.75&quot;</td>
<td>3.75&quot;</td>
<td>4.5&quot;</td>
<td>.75&quot;</td>
<td>42.1 gr.</td>
<td>68%</td>
<td>0.48&quot;</td>
<td>2970</td>
</tr>
<tr>
<td>PLYWOOD</td>
<td>15.0&quot;</td>
<td>2.5&quot;</td>
<td>4.5&quot;</td>
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<td>33.4 gr.</td>
<td>54%</td>
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<tr>
<td>AUTO GLASS</td>
<td>6.5&quot;</td>
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<td>3.0&quot;</td>
<td>0.0&quot;</td>
<td>17.7 gr.</td>
<td>29%</td>
<td>0.40&quot;</td>
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</table>
5.56 NATO
70 gr. GMX® TAP® BARRIER™

**ITEM NO. 81265**

**Performance Characteristics:**
- High weight retention
- Large wound cavities
- Barrier blind
- Meets FBI Protocol penetration requirements
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0757 lbs

**SCALE 1:1**

**BULLET: GMX®**
- **Ballistic Coefficient:** .350
- **Sectional Density:** .199
- **Bullet Length:** 1.050”
- **Recommended Rifling Twist Rate:**
  For use in 1:7” twist SBR’s, carbines & rifles or 1:8” twist carbines & rifles.
- **Characteristics:** Hollow point, copper alloy with cannelure
- **Push/Pull:** 75/75

**LOT NUMBERS**
- Lot numbers on each box and case

**POWER & PRIMER**
- **Powder:** Increased powder charge to NATO specifications and pressure peak, temperature stable with flash retardant
- **Primer:** Small rifle milspec primer, staked primer pocket, sealed primer

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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**PACKAGING**
- **Tray:** Item No. 8407
- **Box Weight:** 0.61 lbs
- **Gross Weight:** 0.66 lbs
- **20 rounds per box with plastic tray**
- **Carton:** Item No. 8420
- **Carton Weight:** 6.6 lbs
- **Carton Dimensions:** 5.0” x 5.25” x 7.0”
- **10 boxes per carton | 200 rounds per carton**

**CASE: 5.56 NATO**
- Manufacturer’s name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
- **Characteristics:** Match grade brass composite
### 5.56 NATO | 70 gr. GMX® TAP® BARRIER™
16” BBL | 1:7” Twist | COLT M4
ITEM NO. 81265

<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
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<th>Velocity (fps)</th>
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<td>4.5”</td>
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<td>200 yds</td>
<td>300 yds</td>
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<td>200 yds</td>
<td>300 yds</td>
<td>400 yds</td>
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<td>Velocity (fps)</td>
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<td>Energy (ft lbs)</td>
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<td>400 yds</td>
<td>500 yds</td>
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<td>910</td>
<td>741</td>
<td>597</td>
<td>477</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trajectory (inches)</td>
<td>-2.5</td>
<td>1.2</td>
<td>0.0</td>
<td>-7.2</td>
<td>-21.6</td>
<td>-45.2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Test data used on packaging label*
ITEM NO. 81295

Performance Characteristics:
- High weight retention
- Large wound cavities
- Barrier blind
- Meets FBI Protocol
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0660 lbs

CASE: 5.56 NATO

- Manufacturer's name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: TAP® SBR

- Ballistic Coefficient: .230
- Sectional Density: .214
- Bullet Length: .930"
- Recommended Rifling Twist Rate: For use in 1:7" twist SBR's.
- Characteristics: Spire point, copper alloy with cannelure
- Push/Pull: 125/50

POWDER & PRIMER

- Powder: Specifically designed for 10.5" - 11.5" barrels. Low flash, cooler burning, and temperature stable.
- Primer: Small rifle milspec primer, staked primer pocket, sealed primer.

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muzzle</td>
<td>2310</td>
<td>1964</td>
<td>1653</td>
<td>1386</td>
<td>1179</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
<td>888</td>
<td>643</td>
<td>455</td>
<td>320</td>
<td>231</td>
</tr>
<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-7.6</td>
<td>-28.1</td>
<td>-66.8</td>
</tr>
</tbody>
</table>

PACKAGING

- Tray: Item No. 8407
- Box Weight: 0.62 lbs
- Gross Weight: 0.68 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 8420
- Carton Weight: 6.8 lbs
- Carton Dimensions: 5.0" x 5.25" x 7.0"
- 10 boxes per carton | 200 rounds per carton
## 5.56 NATO | 75 gr. TAP® SBR
### 10.5” BBL | 1:7” Twist | LMT CQB
**ITEM NO. 81295**

<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max. Cavity</th>
<th>Depth to Max. Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>17.0”</td>
<td>4.5”</td>
<td>4.5”</td>
<td>.50”</td>
<td>69.5 gr.</td>
<td>93%</td>
<td>0.46”</td>
<td>2201</td>
</tr>
<tr>
<td>Steel</td>
<td>14.75”</td>
<td>3.75”</td>
<td>3.0”</td>
<td>.25”</td>
<td>64.7 gr.</td>
<td>86%</td>
<td>0.43”</td>
<td>2220</td>
</tr>
<tr>
<td>Wallboard</td>
<td>17.25”</td>
<td>3.0”</td>
<td>3.25”</td>
<td>.25”</td>
<td>63.4 gr.</td>
<td>85%</td>
<td>.52”</td>
<td>2207</td>
</tr>
<tr>
<td>Plywood</td>
<td>16.75”</td>
<td>5.0”</td>
<td>4.0”</td>
<td>.50”</td>
<td>46.1 gr.</td>
<td>62%</td>
<td>0.37”</td>
<td>2219</td>
</tr>
<tr>
<td>Auto Glass</td>
<td>15.25”</td>
<td>3.5”</td>
<td>3.0”</td>
<td>.75”</td>
<td>41.4 gr.</td>
<td>55%</td>
<td>0.32”</td>
<td>2227</td>
</tr>
</tbody>
</table>
## 5.56 NATO
### 75 gr. TAP® SBR

<table>
<thead>
<tr>
<th>Item #81295</th>
<th>10.4&quot; Heckler &amp; Koch HK416 1:7&quot;</th>
<th>10.5&quot; LMT CQB 1:7&quot;</th>
<th>11.5&quot; Adams Arms 1:7&quot;</th>
<th>11.5&quot; Superior Arms 1:7&quot;</th>
<th>11.5&quot; COLT M4 1:7&quot;</th>
<th><strong>11.5&quot; 5.56x45mm NATO Test Barrel 1:7&quot;</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Muzzle</td>
<td>Velocity (fps)</td>
<td>Energy (ft lbs)</td>
<td>Trajectory (inches)</td>
<td>Velocity (fps)</td>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td></td>
<td>100 yds</td>
<td>100 yds</td>
<td>200 yds</td>
<td>300 yds</td>
<td>400 yds</td>
<td>500 yds</td>
</tr>
<tr>
<td>Velocity</td>
<td>2170</td>
<td>1838</td>
<td>1542</td>
<td>1296</td>
<td>1117</td>
<td>1004</td>
</tr>
<tr>
<td>Energy</td>
<td>784</td>
<td>562</td>
<td>396</td>
<td>280</td>
<td>208</td>
<td>168</td>
</tr>
<tr>
<td>Trajectory</td>
<td>-2.5</td>
<td>4.0</td>
<td>0.0</td>
<td>-18.7</td>
<td>-58.2</td>
<td>-125.5</td>
</tr>
</tbody>
</table>

*Test data used on packaging label*
5.56 NATO
75 gr. BTHP T2 TAP®

ITEM NO. 8126N

Performance Characteristics:
- Match accurate
- Large wound cavities
- Bullet profile optimized for feed/function in M4/M16
- Max fragmentation for low retained weight
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0757 lbs

CASE: 5.56 NATO

- Manufacturer's name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: MATCH™

- Ballistic Coefficient: .355
- Sectional Density: .214
- Bullet Length: 0.970"
- Recommended Rifling
  Twist Rate: 1:7” to 1:9”
- Characteristics: Boat tail hollow point with cannelure
- Push/Pull: 50/60

POWDER & PRIMER

- Powder: Increased powder charge to NATO specifications and pressure peak, temperature stable with flash retardant
- Primer: Small rifle milspec primer, staked primer pocket, sealed primer

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>2858</td>
<td>2600</td>
<td>2357</td>
<td>2127</td>
<td>1910</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
<td>1360</td>
<td>1126</td>
<td>925</td>
<td>753</td>
<td>608</td>
</tr>
<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-3.7</td>
<td>-13.6</td>
<td>-31.2</td>
</tr>
</tbody>
</table>

PACKAGING

- Tray: Item No. 8407
- Box Weight: 0.61 lbs
- Gross Weight: 0.66 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 8420
- Carton Weight: 6.6 lbs
- Carton Dimensions: 5.0” x 5.25” x 7.0”
- 10 boxes per carton | 200 rounds per carton
### Test Results

<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>10.5&quot;</td>
<td>5.5&quot;</td>
<td>5.5&quot;</td>
<td>0.75&quot;</td>
<td>31.5 gr.</td>
<td>42%</td>
<td>0.50&quot;</td>
<td>2747</td>
</tr>
<tr>
<td>Steel</td>
<td>10.0&quot;</td>
<td>6.0&quot;</td>
<td>1.5&quot;</td>
<td>0.0&quot;</td>
<td>0.0 gr.</td>
<td>0%</td>
<td>0.0&quot;</td>
<td>2813</td>
</tr>
<tr>
<td>Wallboard</td>
<td>10.0&quot;</td>
<td>3.5&quot;</td>
<td>3.0&quot;</td>
<td>1.75&quot;</td>
<td>19.4 gr.</td>
<td>26%</td>
<td>0.46&quot;</td>
<td>2787</td>
</tr>
<tr>
<td>Plywood</td>
<td>7.0&quot;</td>
<td>5.5&quot;</td>
<td>2.75&quot;</td>
<td>0.0&quot;</td>
<td>0.0 gr.</td>
<td>0%</td>
<td>0.0&quot;</td>
<td>2764</td>
</tr>
<tr>
<td>Auto Glass</td>
<td>7.5&quot;</td>
<td>3.75&quot;</td>
<td>2.5&quot;</td>
<td>0.0&quot;</td>
<td>0.0 gr.</td>
<td>0%</td>
<td>0.0&quot;</td>
<td>2646</td>
</tr>
</tbody>
</table>

This bullet fragments completely when encountering this barrier.
## 5.56 NATO
### 75 gr. BTHP T2 TAP®

<table>
<thead>
<tr>
<th>Item #8126N</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10.5” Noveske® CQB 1:7”</strong></td>
</tr>
<tr>
<td>Velocity (fps)</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
</tr>
<tr>
<td><strong>11.5” Bushmaster® XM15-E2S 1:9”</strong></td>
</tr>
<tr>
<td>Velocity (fps)</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
</tr>
<tr>
<td><strong>14.5” Colt® M4 Carbine 1:7”</strong></td>
</tr>
<tr>
<td>Velocity (fps)</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
</tr>
<tr>
<td><strong>16” DPMS® AP4 Panther™ Carbine 1:9”</strong></td>
</tr>
<tr>
<td>Velocity (fps)</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
</tr>
<tr>
<td><strong>18.5” Ruger® Mini 14” 1:9”</strong></td>
</tr>
<tr>
<td>Velocity (fps)</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
</tr>
<tr>
<td><strong>20” 5.56x45mm NATO Test Barrel 1:7”</strong></td>
</tr>
<tr>
<td>Velocity (fps)</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
</tr>
<tr>
<td><strong>20” Bushmaster® XM15-E2S 1:7”</strong></td>
</tr>
<tr>
<td>Velocity (fps)</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
</tr>
</tbody>
</table>

*Test data used on packaging label*
Thank you for participating in our “Member Tested and Recommended Program.” The 5.56 NATO 55 GR GMX has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.93. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in The Tactical Edge journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our “Member Tested and Recommended Program.”
The 5.56 NATO 62 GR TAP Barrier has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.95.
The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in The Tactical Edge journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our Member Tested and Recommended Program. The **5.56 NATO 70 GR GMX Barrier Cartridges** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.59**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The 5.56 NATO 75 grain TAP SBR Rounds have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 3.86.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in The Tactical Edge journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our “Member Tested and Recommended Program.” The 5.56 x 45 75 GR BTHP WC T2 has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.95. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in The Tactical Edge journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program.

Thank you,

Corey Luby
800-279-9127x120
Hornady® 300 Blackout is specifically developed for agencies that want the increased bullet weight and overall performance of the 300 Blackout over standard 5.56/223 loads. The polymer tip initiates expansion upon contact, allowing consistent expansion and penetration through the FBI protocol, making it the optimum choice for patrol rifle programs.

**110 gr. GMX® TAP®**
Polymer Tipped Copper Alloy Bullet | B.C. = .305

The 300 Blackout TAP® offers excellent barrier performance from 10-16" barreled rifles. The monolithic copper alloy bullet design fouls less than pure copper bullets while maintaining accuracy and consistent terminal performance. The 300 Blackout TAP® is the absolute optimum choice for patrol rifles in 300 Blackout.

**Hornady Product Summary**

Hornady® 300 Blackout is specifically developed for agencies that want the increased bullet weight and overall performance of the 300 Blackout over standard 5.56/223 loads. The polymer tip initiates expansion upon contact, allowing consistent expansion and penetration through the FBI protocol, making it the optimum choice for patrol rifle programs.

This line of ammunition is intended for Law Enforcement sales ONLY.

B.C. = Ballistic Coefficient
300 BLACKOUT
110 gr. GMX® TAP®

ITEM NO. 80875
Performance Characteristics:
• Match accuracy
• Minimal deflection on glass
• Large wound cavities
• Meets FBI barrier penetration protocol
• High Retained Weight
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0514 lbs

CASE: 300 BLACKOUT
• Manufacturer's name (Hornady) and caliber designation (300 BLK) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: GMX®
• Ballistic Coefficient: .305
• Sectional Density: .166
• Bullet Length: 1.180"
• Recommended Rifling
  Twist Rate: 1:8"
• Characteristics: Polymer tipped, monolithic
• Push/Pull: 60/60

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small rifle, staked primer pocket

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>2290</td>
<td>2028</td>
<td>1784</td>
<td>1563</td>
<td>1369</td>
<td>1210</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
<td>1281</td>
<td>1004</td>
<td>777</td>
<td>597</td>
<td>458</td>
<td>357</td>
</tr>
<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-7.0</td>
<td>-25.0</td>
<td>-57.3</td>
<td>-108.2</td>
</tr>
</tbody>
</table>

LOT NUMBERS
• Lot numbers on each box and case

PACKAGING
• Tray: Item No. 8407
• Box Weight: 1.00 lbs
• Gross Weight: 1.07 lbs
• 20 rounds per box with plastic tray
• Carton: Item No. 8420
• Carton Weight: 10.7 lbs
• Carton Dimensions: 5.0" x 5.25" x 7.0"
• 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>16.75&quot;</td>
<td>4.75&quot;</td>
<td>4.75&quot;</td>
<td>0.25&quot;</td>
<td>87.9 gr.</td>
<td>80%</td>
<td>0.60&quot;</td>
<td>2281</td>
</tr>
<tr>
<td>STEEL</td>
<td>15.25&quot;</td>
<td>4.5&quot;</td>
<td>3.5&quot;</td>
<td>0.25&quot;</td>
<td>81.7 gr.</td>
<td>74%</td>
<td>0.50&quot;</td>
<td>2263</td>
</tr>
<tr>
<td>WALLBOARD</td>
<td>17.0&quot;</td>
<td>3.5&quot;</td>
<td>3.75&quot;</td>
<td>0.25&quot;</td>
<td>105.7 gr.</td>
<td>96%</td>
<td>0.59&quot;</td>
<td>2269</td>
</tr>
<tr>
<td>PLYWOOD</td>
<td>16.25&quot;</td>
<td>4.25&quot;</td>
<td>4.0&quot;</td>
<td>0.25&quot;</td>
<td>104.6 gr.</td>
<td>95%</td>
<td>0.61&quot;</td>
<td>2276</td>
</tr>
<tr>
<td>AUTO GLASS</td>
<td>18.0&quot;</td>
<td>3.5&quot;</td>
<td>3.25&quot;</td>
<td>0.0&quot;</td>
<td>88.0 gr.</td>
<td>80%</td>
<td>0.52&quot;</td>
<td>2268</td>
</tr>
<tr>
<td>Item #80875</td>
<td></td>
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<td></td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>8.5&quot; AAC 1:8&quot;</strong></td>
<td><strong>Muzzle</strong></td>
<td><strong>100 yds</strong></td>
<td><strong>200 yds</strong></td>
<td><strong>300 yds</strong></td>
<td><strong>400 yds</strong></td>
<td><strong>500 yds</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Velocity (fps)</td>
<td>2148</td>
<td>1895</td>
<td>1663</td>
<td>1456</td>
<td>1279</td>
<td>1141</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
<td>1127</td>
<td>877</td>
<td>676</td>
<td>518</td>
<td>400</td>
<td>318</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Trajectory (inches)</td>
<td>-1.5</td>
<td>0.0</td>
<td>-8.2</td>
<td>-29.1</td>
<td>-66.5</td>
<td>-125.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>8.75&quot; Custom LW 1:8&quot;</strong></td>
<td><strong>Muzzle</strong></td>
<td><strong>100 yds</strong></td>
<td><strong>200 yds</strong></td>
<td><strong>300 yds</strong></td>
<td><strong>400 yds</strong></td>
<td><strong>500 yds</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Velocity (fps)</td>
<td>2178</td>
<td>1923</td>
<td>1689</td>
<td>1478</td>
<td>1298</td>
<td>1155</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
<td>1158</td>
<td>903</td>
<td>696</td>
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<td>-8.0</td>
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<tr>
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<td><strong>Muzzle</strong></td>
<td><strong>100 yds</strong></td>
<td><strong>200 yds</strong></td>
<td><strong>300 yds</strong></td>
<td><strong>400 yds</strong></td>
<td><strong>500 yds</strong></td>
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<td></td>
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<tr>
<td>Velocity (fps)</td>
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<td>1969</td>
<td>1730</td>
<td>1515</td>
<td>1328</td>
<td>1178</td>
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<td></td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
<td>1211</td>
<td>947</td>
<td>731</td>
<td>560</td>
<td>431</td>
<td>339</td>
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<tr>
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</table>

*Test data used on packaging label*
300 BLACKOUT SUBSONIC
190 gr. SUB-X™ TAP®

ITEM NO. 80895
Performance Characteristics:
• Minimal deflection on glass
• Meets FBI barrier penetration protocol
• High Retained Weight
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0393 lbs

CASE: 300 BLACKOUT
• Manufacturer’s name (Hornady) and caliber designation (300 BLK) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: SUB-X™ TAP®
• Ballistic Coefficient: .437
• Sectional Density: .286
• Bullet Length: 1.328”
• Recommended Rifling
  Twist Rate: 1:8”
• Characteristics: Polymer tipped, expanding
• Push/Pull: 60/60

LOT NUMBERS
• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1050</td>
<td>998</td>
<td>955</td>
<td>918</td>
<td>885</td>
<td>856</td>
</tr>
<tr>
<td>Energy (ft lbs)</td>
<td>465</td>
<td>420</td>
<td>384</td>
<td>355</td>
<td>331</td>
<td>309</td>
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<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-33.4</td>
<td>-104.9</td>
<td>-217.7</td>
<td>-375.1</td>
</tr>
</tbody>
</table>

PACKAGING

• Tray: Item No. 8407
• Box Weight: 1.20 lbs
• Gross Weight: 1.27 lbs
• 20 rounds per box with plastic tray
• Carton: Item No. 8420
• Carton Weight: 12.7 lbs
• Carton Dimensions: 5.0” x 5.25” x 7.0”
• 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Total Penetration</th>
<th>Max Cavity Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
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</thead>
<tbody>
<tr>
<td>17.50&quot;</td>
<td>3.5&quot;</td>
<td>5&quot;</td>
<td>1.5&quot;</td>
<td>163.9gr.</td>
<td>86%</td>
<td>0.5&quot;</td>
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**300 BLACKOUT**
190 gr. SUB-X® TAP®
9" BBL | 1:8" Twist | KNIGHT ARMAMENT
ITEM NO. 80895
### Item #80895

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
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<th>500 yds</th>
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<tbody>
<tr>
<td><strong>10.5&quot; Noveske® 1:8&quot;</strong></td>
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<tr>
<td>Velocity (fps)</td>
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<td>996</td>
<td>954</td>
<td>917</td>
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<td>855</td>
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<td>Energy (ft lbs)</td>
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<td>355</td>
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<td>Trajectory (inches)</td>
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<td><strong>8&quot; LMT 1:8&quot;</strong></td>
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<tr>
<td>Velocity (fps)</td>
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<td>991</td>
<td>949</td>
<td>913</td>
<td>881</td>
<td>852</td>
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<td>Energy (ft lbs)</td>
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<td>414</td>
<td>380</td>
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<td>306</td>
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<td><strong>9&quot; AAC 1:8&quot;</strong></td>
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<tr>
<td>Velocity (fps)</td>
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<td>998</td>
<td>956</td>
<td>919</td>
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<td>856</td>
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<tr>
<td>Energy (ft lbs)</td>
<td>465</td>
<td>420</td>
<td>385</td>
<td>356</td>
<td>331</td>
<td>309</td>
</tr>
<tr>
<td>Trajectory (inches)</td>
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<td>0.0</td>
<td>-33.4</td>
<td>-104.6</td>
<td>-217.3</td>
<td>-374.2</td>
</tr>
</tbody>
</table>

*Test data used on packaging label*
Thank you for participating in our Member Tested and Recommended Program. The **300 Blackout 110 Grain GMX Rounds** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.28**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program®.

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Hornady® TAP® Rifle loads offer reliable functioning, low muzzle signature and superior terminal performance. Hornady® precision loads provide a low risk of over-penetration due to their enhanced expansion characteristics. The polymer tipped variants have high ballistic coefficients, making them an excellent choice for SWAT precision marksmen.

Hornady 6.5 Creedmoor TAP Precision is specifically designed to meet FBI protocol and provide superior external ballistics when compared to standard 308 WIN offerings. The 147 gr. ELD Match bullet with Heat Shield tip delivers excellent terminal performance and results in higher retained velocities, less drop, less wind drift, and more energy on target.

147gr  ELD® MATCH TAP PRECISION®
Polymer Tipped Spitzer Boat Tail Bullet | B.C. = .697

Hornady Product Summary
Hornady® TAP® Rifle loads offer reliable functioning, low muzzle signature and superior terminal performance. Hornady® precision loads provide a low risk of over-penetration due to their enhanced expansion characteristics. The polymer tipped variants have high ballistic coefficients, making them an excellent choice for SWAT precision marksmen.

This line of ammunition is intended for Law Enforcement sales ONLY.

B.C. = Ballistic Coefficient
6.5 CREEDMOOR
147 gr. ELD® MATCH TAP PRECISION®

ITEM NO. 81505

Performance Characteristics:
• Match accuracy
• Minimal deflection on glass
• Large wound cavities
• Meets FBI barrier penetration protocol
• High Retained Weight
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.1274 lbs

CASE: 6.5 CREEDMOOR

- Manufacturer’s name (Hornady) and caliber designation (6.5 CREEDMOOR) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: ELD® MATCH

• Ballistic Coefficient: .697
• Sectional Density: 301
• Bullet Length: 1.435”
• Recommended Rifling Twist Rate: 1:7 to 1:8”
• Characteristics: Polymer tipped, Match grade
• Push/Pull: 70/70

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Large rifle, staked primer pocket

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
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<tbody>
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<td>Energy (ft lbs)</td>
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<td>1377</td>
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<td>-13.9</td>
<td>-30.5</td>
<td>-54.6</td>
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PACKAGING

- Tray: Item No. 8408
- Box Weight: 1.00 lbs
- Gross Weight: 1.07 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 84511
- Carton Weight: 10.7 lbs
- Carton Dimensions: 5.875” x 6.437” x 8.0”
- 10 boxes per carton | 200 rounds per carton
### 6.5 CREEDMOOR
147 gr. ELD® MATCH TAP PRECISION®
24” BBL | 1:8” Twist | REMINGTON 700
ITEM NO. 81505

<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity Depth</th>
<th>Max Cavity to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>16.0”</td>
<td>5.5”</td>
<td>2.5”</td>
<td>1.0”</td>
<td>68.4 gr.</td>
<td>47%</td>
<td>0.61”</td>
<td>2646</td>
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<td>Steel</td>
<td>14.5”</td>
<td>6.5”</td>
<td>4.5”</td>
<td>0.0”</td>
<td>75.9 gr.</td>
<td>52%</td>
<td>0.63”</td>
<td>2657</td>
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<td>Wallboard</td>
<td>15.5”</td>
<td>6.0”</td>
<td>3.0”</td>
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<td>77.5 gr.</td>
<td>53%</td>
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<td>Plywood</td>
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<td>5.5”</td>
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<td>80.3 gr.</td>
<td>55%</td>
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<td>Auto Glass</td>
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<td>4.75”</td>
<td>2.0”</td>
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<td>51.6 gr.</td>
<td>35%</td>
<td>0.64”</td>
<td>2633</td>
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# 6.5 CREEDMOOR

147 gr. ELD® MATCH TAP PRECISION®

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<tr>
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<td></td>
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<tr>
<td>24&quot; Remington 700 Custom Proof Carbon Fiber 1:8&quot;</td>
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<td></td>
</tr>
<tr>
<td>24&quot; Remington® 700 Custom 1:8&quot;</td>
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<td></td>
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<tr>
<td>24&quot; Ruger Precision Rifle 1:8&quot;</td>
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<td>*24&quot; SAAMI Test Barrel 1:8&quot;</td>
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*Test data used on packaging label
**110 gr. TAP URBAN®**
Polymer Tipped Spitzer Flat Base Bullet | B.C. = .290

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 high collateral risk environments. **NOTE:** A superb choice for the M14 and its variants.

**155 gr. A-MAX® TAP PRECISION®**
Polymer Tipped Spitzer Boat Tail Bullet | B.C. = .435

The 155 gr. A-MAX® TAP Precision® cartridge offers match accuracy with a high ballistic coefficient to provide superior long range performance and accuracy. This bullet performs very similarly to the 168 gr. A-MAX® bullet, providing controlled and impressive soft tissue expansion without over penetration. The 155 gr. A-MAX® penetrates glass with minimal deflection and serves as a great alternative to the 168 gr. A-MAX® for Law Enforcement duty applications.

**155 gr. ELD® MATCH TAP PRECISION®**
Polymer Tipped Spitzer Boat Tail Bullet | B.C. = .461

Hornady® 308 WIN 155 gr. ELD® Match TAP Precision® ammunition was designed as an improvement on the 155 gr. A-MAX® TAP Precision® load by incorporating the new ELD® Match bullet. The 155 gr. ELD® Match bullet with Heat Shield® tip delivers the excellent terminal performance TAP Precision® is known for, but features a resilient, heat resistant polymer tip that improves the ballistic coefficient, resulting in higher impact velocities, less drop, less wind drift, and more energy on target.

**165 gr. GMX® TAP® HEAVY BARRIER**
Polymer Tipped Copper Alloy Bullet | B.C. = .447

TAP® Heavy Barrier™ turns cover into concealment. The 165 gr. GMX® TAP® Heavy Barrier™ is constructed of a monolithic copper alloy. It shoots cleaner than pure copper, fouls less and delivers devastating terminal performance. The GMX® bullet penetrates heavy barriers such as 1” laminated glass with exceptional weight retention while still delivering superior terminal performance. **NOTE:** Maximum penetration — Not for use where over-penetration is a concern.

**165 gr. INTERBOND® TAP® BARRIER™**
Polymer Tipped Bonded Bullet | B.C. = .447

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.

**168 gr. A-MAX® TAP PRECISION®**
Polymer Tipped Spitzer Boat Tail Bullet | B.C. = .475

The 168 gr. A-MAX® bullet is a traditional match grade bullet with the performance advantages of a polymer tip. This bullet demonstrates an increase in penetration and retained weight over the 155 gr. A-MAX® bullet. Standard barrier performance is exemplary and this load demonstrates controlled and impressive soft tissue expansion without over penetration. The Hornady® 168 gr. A-MAX® TAP Precision® offers industry leading all-around performance for law enforcement precision marksmen providing the ability to stop a threat.

**168 gr. ELD® MATCH TAP PRECISION®**
Polymer Tipped Spitzer Boat Tail Bullet | B.C. = .523

Hornady® 308 WIN 168 gr. ELD® MATCH TAP PRECISION® ammunition was designed as an improvement on the 168 gr. A-MAX® TAP Precision® load by incorporating the new ELD® Match bullet. The 168 gr. ELD® Match bullet with Heat Shield® tip delivers the excellent terminal performance TAP Precision® is known for, but features a resilient, heat resistant polymer tip that improves the ballistic coefficient, resulting in higher impact velocities, less drop, less wind drift, and more energy on target.

**168 gr. ELD® MATCH TAP® AR™**
Polymer Tipped Spitzer Boat Tail Bullet | B.C. = .523

Hornady® 308 WIN TAP® AR™ ammunition is the first TAP® offering loaded with the new ELD® Match bullet. The 168 gr. ELD® Match bullet with Heat Shield® tip delivers the excellent terminal performance TAP Precision® is known for, but features a resilient, heat resistant polymer tip that improves the ballistic coefficient, resulting in higher impact velocities, less drop, less wind drift, and more energy on target. Designed specifically for the 308 AR platform and its variants, the resilient tip of the ELD®X® bullet aids in reliable feed and function, and the propellant is specifically tailored to efficiently operate in the AR-10.
308 WIN
110 gr. TAP URBAN®

**ITEM NO. 80896**

**Performance Characteristics:**
- Rapid expansion
- Complete fragmentation
- Low felt recoil
- Devastating permanent cavity
- Low penetration
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1129 lbs

**CASE: 308 WINCHESTER**

- Manufacturer's name (Hornady) and caliber designation (308 WIN) imprinted on case head
- Characteristics: Match grade brass composite

**BULLET: TAP URBAN®**

- **Ballistic Coefficient:** .290
- **Sectional Density:** .166
- **Bullet Length:** 0.927"
- **Recommended Rifling**
  - Twist Rate: 1:8" to 1:12"
- **Characteristics:** Polymer tipped, fragmenting
- **Push/Pull:** 50/50

**POWDER & PRIMER**

- **Powder:** Temperature stable with flash retardant
- **Primer:** Large rifle, staked primer pocket

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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</thead>
<tbody>
<tr>
<td><strong>Velocity (fps)</strong></td>
<td>3187</td>
<td>2850</td>
<td>2537</td>
<td>2246</td>
<td>1973</td>
<td>1723</td>
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<tr>
<td><strong>Energy (ft lbs)</strong></td>
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<td>1572</td>
<td>1231</td>
<td>951</td>
<td>725</td>
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<tr>
<td><strong>Trajectory (in)</strong></td>
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<td>0</td>
<td>-2.8</td>
<td>-11.0</td>
<td>-26.2</td>
<td>-50.3</td>
</tr>
</tbody>
</table>

**PACKAGING**

- Tray: Item No. 8407
- Box Weight: 1.0 lbs
- Gross Weight: 1.07 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 84511
- Carton Weight: 10.7 lbs
- Carton Dimensions: 5.875" x 6.437" x 8.0"
- 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max. Cavity</th>
<th>Depth to Max. Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>10.0&quot;</td>
<td>6.0&quot;</td>
<td>4.5&quot;</td>
<td>0.0&quot;</td>
<td>5.6 gr.</td>
<td>5%</td>
<td>0.31&quot;</td>
<td>2998</td>
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<tr>
<td>Steel</td>
<td>9.75&quot;</td>
<td>3.75&quot;</td>
<td>0.75&quot;</td>
<td>0.0&quot;</td>
<td>0.0 gr.</td>
<td>0%</td>
<td>0.0&quot;</td>
<td>3002</td>
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<tr>
<td>Wallboard</td>
<td>8.5&quot;</td>
<td>5.0&quot;</td>
<td>2.25&quot;</td>
<td>0.0&quot;</td>
<td>36.0 gr.</td>
<td>33%</td>
<td>0.51&quot;</td>
<td>2993</td>
</tr>
<tr>
<td>Plywood</td>
<td>10.0&quot;</td>
<td>6.0&quot;</td>
<td>3.5&quot;</td>
<td>0.0&quot;</td>
<td>0.0 gr.</td>
<td>0%</td>
<td>0.0&quot;</td>
<td>2954</td>
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<tr>
<td>Auto Glass</td>
<td>6.75&quot;</td>
<td>6.5&quot;</td>
<td>0.75&quot;</td>
<td>0.0&quot;</td>
<td>0.0 gr.</td>
<td>0%</td>
<td>0.0&quot;</td>
<td>3007</td>
</tr>
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</table>

*This bullet fragments completely when encountering this barrier.*
### Item #80896

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<thead>
<tr>
<th>Barrel Configuration</th>
<th>Distance (yds)</th>
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<th>200</th>
<th>300</th>
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<th>500</th>
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<tbody>
<tr>
<td><strong>16&quot; DPMS® Panther™ LR-AP4 1:10&quot;</strong></td>
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<td>2857</td>
<td>2544</td>
<td>2253</td>
<td>1981</td>
<td>1730</td>
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<tr>
<td>Velocity (fps)</td>
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<td>1581</td>
<td>1240</td>
<td>958</td>
<td>731</td>
<td>553</td>
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<tr>
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<td>2389</td>
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<td>-7.8</td>
<td>-23.4</td>
<td>-49.4</td>
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<td>2376</td>
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<td>1750</td>
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<td>-44.2</td>
</tr>
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</table>

*Test data used on packaging label*
308 WIN
155 gr. A-MAX® TAP PRECISION®

**ITEM NO. 80925**

Performance Characteristics:
- Match accuracy
- Minimal deflection on glass
- Large wound cavities
- Meets FBI barrier penetration protocol
- Endorsed by the American Sniper Association
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1143 lbs

**CASE: 308 WINCHESTER**

- Manufacturer's name (Hornady) and caliber designation (308 WIN) imprinted on case head
- **Characteristics**: Match grade brass composite

**BULLET: A-MAX®**

- **Ballistic Coefficient**: .435
- **Sectional Density**: .233
- **Bullet Length**: 1.210”
- **Recommended Rifling**
  - **Twist Rate**: 1:8” to 1:12”
- **Characteristics**: Polymer tipped, Match grade
- **Push/Pull**: 75/75

**POWDER & PRIMER**

- **Powder**: Temperature stable with flash retardant
- **Primer**: Large rifle, staked primer pocket

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tbody>
<tr>
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<td>-13.7</td>
<td>-30.9</td>
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</table>

**PACKAGING**

- **Tray**: Item No. 8408
- **Box Weight**: 1.1 lbs
- **Gross Weight**: 1.18 lbs
- **20 rounds per box with plastic tray**
- **Carton**: Item No. 84511
- **Carton Weight**: 11.8 lbs
- **Carton Dimensions**: 5.875” x 6.437” x 8.0”
- **10 boxes per carton | 200 rounds per carton**
<table>
<thead>
<tr>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
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<tbody>
<tr>
<td>17.5&quot;</td>
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<td>5.5&quot;</td>
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<td>14.5&quot;</td>
<td>3.75&quot;</td>
<td>3.0&quot;</td>
<td>0.0&quot;</td>
<td>73.6 gr.</td>
<td>47%</td>
<td>0.59&quot;</td>
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<tr>
<td>12.75&quot;</td>
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<td>94.0 gr.</td>
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<td>13.5&quot;</td>
<td>5.0&quot;</td>
<td>5.0&quot;</td>
<td>0.0&quot;</td>
<td>84.4 gr.</td>
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<td>12.0&quot;</td>
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<td>39.5 gr.</td>
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<td>400 yds</td>
<td>500 yds</td>
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<td></td>
<td></td>
<td></td>
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<td>300 yds</td>
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<td>500 yds</td>
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<tr>
<td>Muzzle</td>
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<td>200 yds</td>
<td>300 yds</td>
<td>400 yds</td>
<td>500 yds</td>
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<td>300 yds</td>
<td>400 yds</td>
<td>500 yds</td>
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*24” SAAMI 308 Win. Test Barrel 1:12”* |
| Muzzle | 100 yds | 200 yds | 300 yds | 400 yds | 500 yds |
| Velocity (fps) | 2784 | 2577 | 2379 | 2189 | 2009 | 1837 |
| Energy (ft lbs) | 2667 | 2285 | 1947 | 1650 | 1389 | 1162 |
| Trajectory (inches) | -1.5 | 1.9 | 0.0 | -8.0 | -23.3 | -47.3 |

| **26” Remington® 700 Police 1:12”** |
| Muzzle | 100 yds | 200 yds | 300 yds | 400 yds | 500 yds |
| Velocity (fps) | 2781 | 2574 | 2376 | 2187 | 2006 | 1835 |
| Energy (ft lbs) | 2662 | 2280 | 1943 | 1646 | 1385 | 1159 |
| Trajectory (inches) | -1.5 | 1.9 | 0.0 | -8.1 | -23.4 | -47.4 |

*Test data used on packaging label*
308 WIN
155 gr. ELD® MATCH TAP PRECISION®

ITEM NO. 80905

Performance Characteristics:
- Match accuracy
- Minimal deflection on glass
- Large wound cavities
- Meets FBI barrier penetration protocol
- Endorsed by the American Sniper Association
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1625 lbs

CASE: 308 WINCHESTER

- Manufacturer’s name (Hornady) and caliber designation (308 WIN) imprinted on case head
- Characteristics: Match grade brass composite

BULLET: ELD® MATCH

- Ballistic Coefficient: .461
- Sectional Density: .233
- Bullet Length: 1.196”
- Recommended Rifling
  Twist Rate: 1:8 to 1:12”
- Characteristics: Polymer tipped, Match grade
- Push/Pull: 50/80

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Large rifle, staked primer pocket

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<td>2401</td>
<td>2220</td>
<td>2048</td>
<td>1883</td>
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<td>2306</td>
<td>1983</td>
<td>1696</td>
<td>1443</td>
<td>1221</td>
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<td>-13.4</td>
<td>-30.3</td>
<td>-55.4</td>
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</tbody>
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PACKAGING

- Tray: Item No. 8408
- Box Weight: 1.1 lbs
- Gross Weight: 1.18 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 84511
- Carton Weight: 11.8 lbs
- Carton Dimensions: 5.875” x 6.437” x 8.0”
- 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
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</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>13.75&quot;</td>
<td>6.0&quot;</td>
<td>3.0&quot;</td>
<td>.50&quot;</td>
<td>72.5 gr.</td>
<td>47%</td>
<td>0.57&quot;</td>
<td>2856</td>
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<tr>
<td>Steel</td>
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<td>3.0&quot;</td>
<td>0.0&quot;</td>
<td>82.0 gr.</td>
<td>53%</td>
<td>0.55&quot;</td>
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<td>4.0&quot;</td>
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<td>0.51&quot;</td>
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<td>30%</td>
<td>0.49&quot;</td>
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<td>7.0&quot;</td>
<td>2.0&quot;</td>
<td>0.0&quot;</td>
<td>62.2 gr.</td>
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### Item #80905

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<th>200 yds</th>
<th>300 yds</th>
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</thead>
<tbody>
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<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
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<td>2247</td>
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<td>1907</td>
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<td>Energy (ft lbs)</td>
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<td>1737</td>
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<table>
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<th>26” Remington® 700P 1:12”</th>
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<td>Energy (ft lbs)</td>
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<td>-13.4</td>
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*Test data used on packaging label
308 WIN
165 gr. GMX® TAP®
HEAVY BARRIER

ITEM NO. 80985

Performance Characteristics:
• Nearly 100% weight retention on all FBI barriers
• Large wound cavities
• Extremely deep penetration
• Ideal for defeating hard barriers and glass
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.1351 lbs

CASE: 308 WINCHESTER

• Manufacturer's name (Hornady) and caliber designation (308 WIN) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: GMX®

• Ballistic Coefficient: .447
• Sectional Density: .248
• Bullet Length: 1.418”
• Recommended Rifling Twist Rate: 1:8” to 1:12”
• Characteristics: Polymer tipped, copper alloy, double cannelured
• Push/Pull: 125/125

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Large rifle, staked primer pocket

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
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<td>-4.5</td>
<td>-15.9</td>
<td>-35.7</td>
<td>-65.3</td>
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PACKAGING

• Tray: Item No. 8408
• Box Weight: 1.15 lbs
• Gross Weight: 1.24 lbs
• 20 rounds per box with plastic tray

• Carton: Item No. 84511
• Carton Weight: 12.4 lbs
• Carton Dimensions: 5.875” x 6.437” x 8.0”
• 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>BARE GELATIN</td>
<td>29.0&quot;</td>
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<td>5.25&quot;</td>
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<td>164.5 gr.</td>
<td>99%</td>
<td>0.53&quot;</td>
<td>2577</td>
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<td>4.0&quot;</td>
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<td>97%</td>
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<td>2607</td>
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<td>4.0&quot;</td>
<td>4.5&quot;</td>
<td>0.5&quot;</td>
<td>163.8 gr.</td>
<td>99%</td>
<td>0.59&quot;</td>
<td>2595</td>
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<td>PLYWOOD</td>
<td>27.0&quot;</td>
<td>6.5&quot;</td>
<td>6.5&quot;</td>
<td>1.0&quot;</td>
<td>164.2 gr.</td>
<td>100%</td>
<td>0.58&quot;</td>
<td>2583</td>
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<td>AUTO GLASS</td>
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### Item #80985

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<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tbody>
<tr>
<td><strong>Velocity (fps)</strong></td>
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<td>2289</td>
<td>2109</td>
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<table>
<thead>
<tr>
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<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
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<td>2203</td>
<td>2027</td>
<td>1859</td>
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<table>
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<th>22” Springfield Armory® M1A™ 1:11”</th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
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<tbody>
<tr>
<td><strong>Velocity (fps)</strong></td>
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<td>2435</td>
<td>2248</td>
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<td><strong>Energy (ft lbs)</strong></td>
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<td>2172</td>
<td>1851</td>
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<table>
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<td>2267</td>
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<td>1917</td>
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<td>-25.9</td>
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</table>

*24” SAAMI 308 Win. Test Barrel 1:12” | Muzzle | 100 yds | 200 yds | 300 yds | 400 yds | 500 yds |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
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<td><strong>Velocity (fps)</strong></td>
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<td>2416</td>
<td>2231</td>
<td>2053</td>
<td>1884</td>
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<table>
<thead>
<tr>
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<th>100 yds</th>
<th>200 yds</th>
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<th>400 yds</th>
<th>500 yds</th>
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<tbody>
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<tr>
<td><strong>Energy (ft lbs)</strong></td>
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<td>2246</td>
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<td>1626</td>
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<td>2.1</td>
<td>0.0</td>
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<td>-51.3</td>
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</table>

*Test data used on packaging label
308 WIN
165 gr. INTERBOND®
TAP® BARRIER™

ITEM NO. 80995

Performance Characteristics:
• Large wound cavities
• Deep penetration
• Ideal for hard barrier penetration
• Reliable barrier penetration
• High weight retention
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.1243 lbs

CASE: 308 WINCHESTER

• Manufacturer’s name (Hornady) and caliber designation (308 WIN) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: INTERBOND®

• Ballistic Coefficient: .447
• Sectional Density: .248
• Bullet Length: 1.310”
• Recommended Rifling
  Twist Rate: 1:8” to 1:12”
• Characteristics: Polymer tipped, bonded with cannelure
• Push/Pull: 80/80

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Large rifle, staked primer pocket

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tbody>
<tr>
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<td>1980</td>
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<td>-4.0</td>
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<td>-32.5</td>
<td>-58.5</td>
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</table>

PACKAGING

• Tray: Item No. 8408
• Box Weight: 1.13 lbs
• Gross Weight: 1.21 lbs
• 20 rounds per box with plastic tray
• Carton: Item No. 84511
• Carton Weight: 12.1 lbs
• Carton Dimensions: 5.875” x 6.437” x 8.0”
• 10 boxes per carton | 200 rounds per carton
| Material        | Total Penetration | Max Cavity | Depth to Max Cavity | Initial Penetration | Retained Weight | Retained Weight % | Expanded Diameter | Velocity (fps) |
|-----------------|-------------------|------------|---------------------|--------------------|-----------------|-------------------|-------------------|----------------|----------------|
| Bare Gelatin    | 24.5" 5.25"       | 6.5"       | 0.5"                | 155.2 gr.          | 94%             | 0.62"             | 2640              |                |
| Steel           | 21.5" 3.25"       | 1.5"       | 0.0"                | 120.5 gr.          | 73%             | 0.56"             | 2624              |                |
| Wallboard       | 21.5" 4.0"        | 4.25"      | 0.25"               | 128.9 gr.          | 78%             | 0.60"             | 2617              |                |
| Plywood         | 19.0" 6.5"        | 4.5"       | 0.5"                | 152.2 gr.          | 92%             | 0.75"             | 2580              |                |
| Auto Glass      | 16.75" 5.75"      | 4.5"       | 0.0"                | 113.4 gr.          | 69%             | 0.61"             | 2605              |                |
### Item #80995

<table>
<thead>
<tr>
<th>16” DPMS® Panther™ LR-AP4 1:10”</th>
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<tr>
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<td>Velocity (fps)</td>
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</table>

*Test data used on packaging label*
308 WIN
168 gr. A-MAX®
TAP PRECISION®

ITEM NO. 80965

Performance Characteristics:
• Match accuracy
• Minimal deflection on glass
• Large wound cavities
• Meets FBI barrier penetration protocol
• Endorsed by the American Sniper Association
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.1263 lbs

CASE: 308 WINCHESTER

• Manufacturer's name (Hornady) and caliber designation (308 WIN) imprinted on case head
• Characteristics: Match grade brass composite

BULLET: A-MAX®

• Ballistic Coefficient: .475
• Sectional Density: .253
• Bullet Length: 1.275"
• Recommended Rifling
  Twist Rate: 1:8” to 1:12”
• Characteristics: Polymer tipped, Match grade
• Push/Pull: 30/100

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Large rifle, staked primer pocket

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
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PACKAGING

• Tray: Item No. 8408
• Box Weight: 1.17 lbs
• Gross Weight: 1.26 lbs
• 20 rounds per box with plastic tray
• Carton: Item No. 84511
• Carton Weight: 12.6 lbs
• Carton Dimensions: 5.875” x 6.437” x 8.0”
• 10 boxes per carton | 200 rounds per carton
308 WIN | 168 gr. A-MAX® TAP PRECISION®
20" BBL | 1:12" Twist | Remington 700LTR
ITEM NO. 80965

<table>
<thead>
<tr>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth &amp; Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
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<tbody>
<tr>
<td>14.25&quot;</td>
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<tr>
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<td>4.5&quot;</td>
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</table>
## 308 WIN
168 gr. A-MAX® TAP PRECISION®

<table>
<thead>
<tr>
<th>Item #80965</th>
<th>16&quot; DPMS® Panther™ LR-AP4 1:10&quot;</th>
<th>20&quot; Remington® 700 Police LTR 1:12&quot;</th>
<th>22&quot; Springfield Armory® M1A™ 1:11&quot;</th>
<th>24&quot; Remington® M24 1:11.25&quot;</th>
<th>24&quot; SAAMI 308 Win. Test Barrel 1:12&quot;</th>
<th>26&quot; Remington® 700 Police 1:12&quot;</th>
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<tr>
<td></td>
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*Test data used on packaging label*
308 WIN
168 gr. ELD® MATCH TAP PRECISION®

**ITEM NO. 80725**

Performance Characteristics:
- Match accuracy
- Minimal deflection on glass
- Large wound cavities
- Meets FBI barrier penetration protocol
- Endorsed by the American Sniper Association
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1263 lbs

**CASE: 308 WINCHESTER**

- Manufacturer’s name (Hornady) and caliber designation (308 WIN) imprinted on case head
- Characteristics: Match grade brass composite

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**BULLET: ELD® MATCH**

- Ballistic Coefficient: .523
- Sectional Density: .253
- Bullet Length: 1.275”
- Recommended Rifling
  Twist Rate: 1:8” to 1:12”
- Characteristics: Polymer tipped, Match grade
- Push/Pull: 30/100

**POWDER & PRIMER**

- Powder: Temperature stable with flash retardant
- Primer: Large rifle, staked primer pocket

---

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
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**PACKAGING**

- Tray: Item No. 8408
- Box Weight: 1.17 lbs
- Gross Weight: 1.26 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 84511
- Carton Weight: 12.6 lbs
- Carton Dimensions: 5.875” x 6.437” x 8.0”
- 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
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<tr>
<td>BARE GELATIN</td>
<td>13.25”</td>
<td>7.0”</td>
<td>4.0”</td>
<td>0.50”</td>
<td>125.5 gr.</td>
<td>75%</td>
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<td>STEEL</td>
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<td>7.0”</td>
<td>3.5”</td>
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<td>50%</td>
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<td>WALLBOARD</td>
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<td>4.0”</td>
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<td>98.9 gr.</td>
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<td>PLYWOOD</td>
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<td>6.0”</td>
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<td>2.5”</td>
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<td>70.2 gr.</td>
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### Item #80725

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<td>1609</td>
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<table>
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<td>2346</td>
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<td>2052</td>
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<td>-14.3</td>
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*Test data used on packaging label*
**308 WIN TAP AR™**
**168 gr. ELD® MATCH**

**ITEM NO. 80715**

Performance Characteristics:
- Match accuracy
- Minimal deflection on glass
- Large wound cavities
- Meets FBI barrier penetration protocol
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1149 lbs

**CASE: 308 WINCHESTER**

- Manufacturer’s name (Hornady) and caliber designation (308 WIN) imprinted on case head
- Characteristics: Match grade brass composite

**BULLET: ELD® MATCH**

- Ballistic Coefficient: .523
- Sectional Density: .253
- Bullet Length: 1.275"
- Recommended Rifling
  Twist Rate: 1:8” to 1:12”
- Characteristics: Polymer tipped, Match grade
- Push/Pull: 60/60

**POWDER & PRIMER**

- Powder: Temperature stable with flash retardant
- Primer: Large rifle, staked primer pocket

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
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<td>-34.3</td>
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**PACKAGING**

- Tray: Item No. 8408
- Box Weight: 1.17 lbs
- Gross Weight: 1.26 lbs
- 20 rounds per box with plastic tray
- Carton: Item No. 84511
- Carton Weight: 12.6 lbs
- Carton Dimensions: 5.875” x 6.437” x 8.0”
- 10 boxes per carton | 200 rounds per carton
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
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<th>Velocity (fps)</th>
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<tr>
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<td>3.5&quot;</td>
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<td>62%</td>
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### Item #80715

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</tbody>
</table>

*Test data used on packaging label*
Thank you for participating in our Member Tested and Recommended Program. The 308 WIN 110 GR TAP Urban Cartridges have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.68.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in The Tactical Edge journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our “Member Tested and Recommended Program.” The **308 WIN 155 GR AMAX TAP** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.36**. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in *The Tactical Edge* journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our “Member Tested and Recommended Program.” The **308 WIN 165 GR GMX TAP HEAVY BARRIER** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **3.38**. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in *The Tactical Edge* journal.

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Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our “Member Tested and Recommended Program.” The **308 WIN 165 GR INTERBOND TAP Barrier** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **3.55**. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in *The Tactical Edge* journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
Thank you for participating in our “Member Tested and Recommended Program.”
The **308 WIN 168 GR AMAX TAP** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **5.0**. The NTOA Member Tested and Recommended logo may be used solely on the specific product that was tested.

Since the review is completed, it will now be added to the online Member Tested product database. To make the review complete, please send us a digital image of the product that has been tested. This is now listed on the NTOA’s Member Tested and Recommended online database and review will soon be published in *The Tactical Edge* journal.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Thank you,

Corey Luby
800-279-9127x120
The A-MAX bullet incorporates a polymer tip material that maintains match accuracy and initiates expansion across a broad range of target materials and media. When the polymer tip of the A-MAX bullet contacts the barrier or target media it is driven into the hollow point of the bullet nose forcing the bullet core and jacket to open outward. This mushrooming expansion is consistent due to the initiation by the polymer tip not found in the BTHP design. The consistency of the tip initiated expansion results in much more reliable penetration results across different barriers and target media.

### 168 gr. A-MAX vs. 168 gr. BTHP

The boat tail hollow point design was originally intended as a match bullet. In terminal media, this bullet style functions based on the bullet upsetting and tumbling to create wound cavitation. A bullet that functions based on tumbling becomes very inconsistent from shot to shot, barrier to barrier, and between different twist rates. One bullet may enter target media and begin to tumble at 4 inches, where the next shot may penetrate 8 inches before upsetting. Since nothing is consistently initiating the expansion or tumbling of the bullet, the consistency of the barrier or target media dictates when and how the bullet will upset. Using a faster twist rate such as a 1 in 10" instead of a 1 in 12" in a .308 Win, will cause the bullet to penetrate more before tumbling.

<table>
<thead>
<tr>
<th>168 BTHP</th>
<th>BARE</th>
<th>STEEL</th>
<th>WALLBOARD</th>
<th>PLYWOOD</th>
<th>GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>22&quot;</td>
<td></td>
<td>24&quot;</td>
<td>19.25&quot;</td>
<td>16&quot;</td>
<td>11.75&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>168 A-MAX</th>
<th>BARE</th>
<th>STEEL</th>
<th>WALLBOARD</th>
<th>PLYWOOD</th>
<th>GLASS</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.25&quot;</td>
<td></td>
<td>14.5&quot;</td>
<td>15.75&quot;</td>
<td>17.0&quot;</td>
<td>13.25&quot;</td>
</tr>
</tbody>
</table>

The A-MAX bullet incorporates a polymer tip material that maintains match accuracy and initiates expansion across a broad range of target materials and media. When the polymer tip of the A-MAX bullet contacts the barrier or target media it is driven into the hollow point of the bullet nose forcing the bullet core and jacket to open outward. This mushrooming expansion is consistent due to the initiation by the polymer tip not found in the BTHP design. The consistency of the tip initiated expansion results in much more reliable penetration results across different barriers and target media.
The choice of ammunition for the police sniper is every bit as critical to mission success as is the selection of the proper rifle and optics. One must take into consideration what the sniper needs to accomplish when he pulls the trigger on an operation, and then choose the proper bullet for that application.

The ideal sniper round will be consistently accurate (when fired from an accurate rifle), give reliable terminal performance, and not over penetrate the human target. An added benefit would be the ability to penetrate all likely barriers. However, any round designed to defeat heavy intermediate barriers is probably going to consistently over penetrate tissue.

With these parameters in mind, the American Sniper Association recommends and endorses the Hornady TAP AMAX round, in either 155 or 168 grain bullet weights, as the ideal primary round for sniper deployments. This bullet has a proven record of sub-MOA accuracy, as well as a well-documented history of optimal terminal performance in actual tactical operations. The final choice of bullet weight should be determined after testing both rounds in your individual barrels to see which one provides the best accuracy.

Both rounds have been shown to work well against the most common barriers encountered by snipers on operations, such as windshields and residential windows. If the sniper expects to deal with a heavier barrier, the best solution is a round designed specifically for that purpose. This is usually achieved with some sort of bonded bullet.

If you have questions or want more documentation about sniper ammunition, feel free to contact the American Sniper Association, www.americansniper.org or 863-385-7835.
Excerpt taken from the “2013 Police Sniper Utilization Report,” compiled and published by the American Sniper Association:

New for the 2013 Edition

During this reporting period, we found 15 incidents in which the Sierra BTHP Match King bullet was used. Twelve of those incidents resulted in through and through wounds. Most troubling about some of the torso wounds was the fact that the target survived, remained a deadly threat, and had to be shot again by SWAT personnel.

In one of the three incidents in which the round stayed in the target, the sniper involved noted in his after action report concern because the bullet broke up passing through a glass barrier. A portion of the round struck the target and was lethal, but other pieces missed.

Conversely, during the same period, we added eight shootings to the database utilizing ballistic-tipped ammunition (primarily Hornady AMAX ammunition). In all eight instances, the round stayed in the target. And all but one of the eight shootings was fatal.

Conclusion

The BTHP has been used by police snipers successfully many times. There is little to dispute its potential lethality when used against human targets. However, it has displayed three problems which cannot be ignored.

1. It will over penetrate human targets at an unacceptable rate. This puts hostages, innocent bystanders and teammates at risk.

2. Because of its inconsistent ballistic performance in tissue, some torso shots have proven ineffective. As a result, a number of incidents required additional shots to be fired to successfully neutralize the subject.

3. And last, but not least, it does not perform well when passing through glass barriers, often shedding its jacket. This results in multiple projectiles going downrange, possibly endangering hostages in close proximity.

Because of these documented issues, our recommendation for ammunition selection remains the same.

For the full report, contact the American Sniper Association, americansniper.org, 863-385-7835.
Winchester Magnum

Hornady 308 WIN 178 gr. ELD® MATCH TAP PRECISION® ammunition was designed as an improvement on the 178 gr. A-MAX TAP PRECISION® load by incorporating the new ELD® Match bullet. Offering higher velocity and energy performance that law enforcement professionals may require over the standard 308 Win, makes this a great alternative to utilize in a variety of situations. The tip initiated expansion of the ELD® Match bullet ensures uniform expansion and penetration through a variety of situations and barriers, while mitigating liability due to over penetration.

Hornady Product Summary

Hornady® 300 Win Mag is specifically designed for Law Enforcement and Military Snipers who require the increased bullet weight and wound channels created by the 300 Win Mag when compared to standard 308 loads. Featuring our ELD® Match bullet and flash retardant powders, this load is the optimum choice for barrier performance while mitigating the risk of over-penetration.

This line of ammunition is intended for Law Enforcement sales ONLY.

B.C. = Ballistic Coefficient
**300 WIN MAG™**

**178 gr. ELD® MATCH TAP PRECISION®**

**ITEM NO. 82045**

**Performance Characteristics:**
- Match accuracy
- Minimal deflection on glass
- Large wound cavities
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.2100 lbs

**CASE: 300 WINCHESTER**

- Manufacturer’s name (Hornady) and caliber designation (300 WIN MAG) imprinted on case head
- **Characteristics:** Match grade brass composite

---

**SCALE 1:1**

**BULLET: ELD® MATCH**

- Ballistic Coefficient: .547
- Sectional Density: .268
- Bullet Length: 1.320”
- Recommended Rifling
  - Twist Rate: 1:8” to 1:12”
- **Characteristics:** Polymer tipped, Match grade
- Push/Pull: 50/50

**POWDER & PRIMER**

- **Powder:** Temperature stable with flash retardant
- **Primer:** Large magnum rifle, staked primer pocket

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>2894</td>
<td>2723</td>
<td>2560</td>
<td>2402</td>
<td>2249</td>
<td>2102</td>
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<td>Energy (ft lbs)</td>
<td>3309</td>
<td>2931</td>
<td>2589</td>
<td>2279</td>
<td>1999</td>
<td>1746</td>
</tr>
<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-3.2</td>
<td>-11.7</td>
<td>-26.2</td>
<td>-47.7</td>
</tr>
</tbody>
</table>

---

**PACKAGING**

- **Tray:** Item No. 8413
- **Box Weight:** 1.62 lbs
- **Gross Weight:** 1.73 lbs
- **20 rounds per box with plastic tray**
- **Carton:** Item No. 845021
- **Carton Weight:** 17.3 lbs
- **Carton Dimensions:** 7.0” x 7.625” x 8.937”
- **10 boxes per carton | 200 rounds per carton**
<table>
<thead>
<tr>
<th>Material</th>
<th>Total Penetration</th>
<th>Max Cavity</th>
<th>Depth to Max Cavity</th>
<th>Initial Penetration</th>
<th>Retained Weight</th>
<th>Retained Weight %</th>
<th>Expanded Diameter</th>
<th>Velocity (fps)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bare Gelatin</td>
<td>14.25&quot;</td>
<td>8.5&quot;</td>
<td>4.25&quot;</td>
<td>0.5&quot;</td>
<td>72.3 gr.</td>
<td>41%</td>
<td>0.84&quot;</td>
<td>2894</td>
</tr>
<tr>
<td>Steel</td>
<td>14.75&quot;</td>
<td>7.5&quot;</td>
<td>5.0&quot;</td>
<td>0.0&quot;</td>
<td>87.2 gr.</td>
<td>49%</td>
<td>0.77&quot;</td>
<td>2903</td>
</tr>
<tr>
<td>Wallboard</td>
<td>14.0&quot;</td>
<td>8.0&quot;</td>
<td>4.25&quot;</td>
<td>0.25&quot;</td>
<td>93.0 gr.</td>
<td>52%</td>
<td>0.75&quot;</td>
<td>2878</td>
</tr>
<tr>
<td>Plywood</td>
<td>13.5&quot;</td>
<td>8.0&quot;</td>
<td>3.75&quot;</td>
<td>0.25&quot;</td>
<td>97.3 gr.</td>
<td>55%</td>
<td>0.73&quot;</td>
<td>2891</td>
</tr>
<tr>
<td>Auto Glass</td>
<td>9.0&quot;</td>
<td>9.0&quot;</td>
<td>1.5&quot;</td>
<td>0.0&quot;</td>
<td>65.4 gr.</td>
<td>17%</td>
<td>0.58&quot;</td>
<td>2887</td>
</tr>
</tbody>
</table>

300 WIN MAG
178 gr. ELD® MATCH TAP PRECISION®
22" BBL | 1:8" Twist | NEMO ARMS OMEN
ITEM NO. 82045
# 300 WIN MAG

178 gr. ELD® MATCH TAP PRECISION®

| Item #82045 |
|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| **26" Savage 110 B 1:9.3"** | **Muzzle** | **100 yds** | **200 yds** | **300 yds** | **400 yds** | **500 yds** |
| Velocity (fps) | 2934 | 2762 | 2597 | 2438 | 2284 | 2136 |
| Energy (ft lbs) | 3402 | 3015 | 2665 | 2348 | 2061 | 1803 |
| Trajectory (inches) | -1.5 | 0.0 | -3.1 | -11.3 | -25.4 | -46.1 |

| **26" Remington® 700 Police 1:10"** | **Muzzle** | **100 yds** | **200 yds** | **300 yds** | **400 yds** | **500 yds** |
| Velocity (fps) | 2905 | 2734 | 2570 | 2412 | 2259 | 2112 |
| Energy (ft lbs) | 3335 | 2955 | 2610 | 2299 | 2017 | 1762 |
| Trajectory (inches) | -1.5 | 0.0 | -3.2 | -11.6 | -26.0 | -47.2 |

*Test data used on packaging label*
Trainable™ Ammunition

Hornady Training™ ammunition provides a cost effective firearms training alternative to the standard TAP® and Critical DUTY® loads. Loaded with proven propellants, coupled with high quality cases, bullets, and primers, Hornady® Training™ ammunition is designed to deliver point of aim / point of impact comparable to our TAP® and Critical DUTY® offerings. Hornady® Training™ Ammunition - an economical, high quality solution for Law Enforcement training.

NOTICE: These products are not intended for duty use.

This line of ammunition is intended for Law Enforcement sales ONLY.

Hornady® Frangible Training Ammunition is designed to provide a lead-free alternative to our traditional training ammunition line. This ammunition gives law enforcement officers the ability to train using steel targets at close distances while reducing the risk of ricochets. Since this ammunition is entirely lead-free, it serves as an excellent choice for indoor range use. Hornady® Frangible Training™ Ammunition features brass cases and lead-free primers and projectiles that are matched with optimized propellants to provide the very best in frangible ammunition.

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

9MM LUGER 135 gr. FMJ Training™
Full Metal Jacket Flat Point Bullet | B.C. = .195
#90238 (Brass)

357 SIG 135 gr. FMJ Training™
Full Metal Jacket Flat Point Bullet | B.C. = .153
#91298 (Brass)

40 S&W 175 gr. FMJ Training™
Full Metal Jacket Flat Point Bullet | B.C. = .155
#91374 (Brass)

45 AUTO 220 gr. FMJ Training™
Full Metal Jacket Flat Point Bullet | B.C. = .180
#90924 (Brass)

9MM LUGER 90 gr. Frangible Training™
Frangible Flat Base Bullet | B.C. = .120
#90230 (Brass)

357 SIG 90 gr. Frangible Training™
Frangible Flat Base Bullet | B.C. = .110
#91285 (Brass)

40 S&W 125 gr. Frangible Training™
Frangible Flat Base Bullet | B.C. = .122
#91319 (Brass)

45 AUTO 1445 gr. Frangible Training™
Frangible Flat Base Bullet | B.C. = .081
#90931 (Brass)

223 REM 55 gr. SP Training™
Spire Point Heavy Jacketed Bullet | B.C. = .235
#80255 (Brass)

223 REM 55 gr. FMJ-BT Training™
Boat Tail Full Metal Jacket Bullet | B.C. = .243
#80275 (Brass)

223 REM 55 gr. FMJ-BT Training™
Boat Tail Full Metal Jacket Bullet | B.C. = .243
#9754EL (Steel)

223 REM 75 gr. BTHP Training™
Boat Tail Hollow Point Bullet | B.C. = .395
#9760EL (Steel)

5.56 NATO 75 gr. TAP SBR Training™
Spire Point Heavy Jacketed Bullet | B.C. = .395
#81292 (Brass)
**TRAINING™**

**9MM LUGER 135 gr. FMJ**

**ITEM NO. 90238**

**Performance Characteristics:**
- Same weight as Critical DUTY® ammunition counterpart
- Cost effective alternative to standard loads
- Quality brass case
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0321 lbs

**BULLET: TRAINING™**

- **Ballistic Coefficient:** .195
- **Sectional Density:** .153
- **Characteristics:** Full Metal Jacket Flat Point
- **Push/Pull:** 100/100

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1010</td>
<td>960</td>
<td>918</td>
</tr>
</tbody>
</table>

**CASE: 9MM LUGER**

- Manufacturer’s name (HMC or HORNADY) and caliber designation (9mm Luger) imprinted on case head
- **Characteristics:** Quality brass

**PACKAGING**

- **Tray:** Item No. 5701
- **Box Weight:** 1.43 lbs
- **Gross Weight:** 1.53 lbs
- **50 rounds per box with styrofoam tray**
- **Carton:** Item No. 5716
- **Carton Weight:** 15.3 lbs
- **Carton Dimensions:** 6.5” x 5.75” x 14.25”
- **10 boxes per carton | 500 rounds per carton**

**POWDER & PRIMER**

- **Powder:** Temperature stable with flash retardant
- **Primer:** Boxer Primed

**SCALE 1:1**

**TRAINING™ 9MM LUGER 135 gr. FMJ**

**ITEM NO. 90238**

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- MADE IN THE USA
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- **Sectional Density:** .153
- **Characteristics:** Full Metal Jacket Flat Point
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<td>960</td>
<td>918</td>
</tr>
</tbody>
</table>

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**PACKAGING**

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- **Carton:** Item No. 5716
- **Carton Weight:** 15.3 lbs
- **Carton Dimensions:** 6.5” x 5.75” x 14.25”
- **10 boxes per carton | 500 rounds per carton**

**POWDER & PRIMER**

- **Powder:** Temperature stable with flash retardant
- **Primer:** Boxer Primed
TRAINING™
357 SIG 135 gr. FMJ

ITEM NO. 91298

Performance Characteristics:
- Same weight as Critical DUTY® ammunition counterpart
- Cost effective alternative to standard loads
- Quality brass case
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0500 lbs

CASE: 9MM LUGER

- Manufacturer’s name (HMC or HORNADY) and caliber designation (357 SIG) imprinted on case head
- Characteristics: Quality brass

BULLET: TRAINING™

- Ballistic Coefficient: .153
- Sectional Density: .153
- Characteristics: Full Metal Jacket Flat Point
- Push/Pull: 125/100

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Boxer Primed

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1225</td>
<td>1113</td>
<td>1033</td>
</tr>
</tbody>
</table>

PACKAGING

- Tray: Item No. 5703
- Box Weight: 1.19 lbs
- Gross Weight: 1.28 lbs
- 50 rounds per box with styrofoam tray
- Carton: Item No. 5739
- Carton Weight: 12.8 lbs
- Carton Dimensions: 6.875" x 6.625" x 9.375"
- 10 boxes per carton | 500 rounds per carton
**TRAINING™**

**40 S&W 175 gr. FMJ**

**ITEM NO. 91374**

Performance Characteristics:
- Same weight as Critical DUTY® ammunition counterpart
- Cost effective alternative to standard loads
- Quality brass case
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0436 lbs

**CASE: 40 S&W**

- Manufacturer’s name (HMC or HORNADY) and caliber designation (40 S&W) imprinted on case head
- Characteristics: Quality brass

**BULLET: TRAINING™**

- Ballistic Coefficient: .155
- Sectional Density: .156
- Characteristics: Full Metal Jacket Flat Point
- Push/Pull: 125/125

**POWDER & PRIMER**

- Powder: Temperature stable with flash retardant
- Primer: Boxer Primed

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1010</td>
<td>948</td>
<td>899</td>
</tr>
</tbody>
</table>

**PACKAGING**

- Tray: Item No. 5703
- Box Weight: 1.79 lbs
- Gross Weight: 1.91 lbs
- 50 rounds per box with styrofoam tray
- Carton: Item No. 5739
- Carton Weight: 19.1 lbs
- Carton Dimensions: 6.875" x 6.625" x 9.375"
- 10 boxes per carton | 500 rounds per carton
TRAINING™
45 AUTO 220 gr. FMJ

ITEM NO. 90924

Performance Characteristics:
• Same weight as Critical DUTY® ammunition counterpart
• Cost effective alternative to standard loads
• Quality brass case
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0443 lbs

trakv_177

CASE: 45 AUTO

• Manufacturer's name (HMC or HORNADY) and caliber designation (45 AUTO) imprinted on case head
• Characteristics: Quality brass

BULLET: TRAINING™

• Ballistic Coefficient: .180
• Sectional Density: .155
• Characteristics: Full Metal Jacket Flat Point
• Push/Pull: 75/100

POWDER & PRIMER

• Powder: Temperature stable with flash retardant
• Primer: Boxer Primed

LOT NUMBERS

• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>900</td>
<td>863</td>
<td>829</td>
</tr>
</tbody>
</table>

PACKAGING

• Tray: Item No. 5703
• Box Weight: 2.22 lbs
• Gross Weight: 2.38
• 50 rounds per box with styrofoam tray
• Carton: Item No. 5739
• Carton Weight: 23.8 lbs
• Carton Dimensions: 6.875" x 6.625" x 9.375"
• 10 boxes per carton | 500 rounds per carton

SCALE 1:1

BULLET: TRAINING™

• Ballistic Coefficient: .180
• Sectional Density: .155
• Characteristics: Full Metal Jacket Flat Point
• Push/Pull: 75/100
TRAINING™
9MM LUGER 90 gr. FRANGIBLE

ITEM NO. 90230

Performance Characteristics:
- Cost effective alternative to standard loads
- Quality coated brass case
- 100% lead free
- Frangible
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0421 lbs

CASE: 9MM LUGER

- Manufacturer’s name (HMC or HORNADY) and caliber designation (9mm Luger) imprinted on case head
- Characteristics: Quality coated brass

BULLET: TRAINING™

- Ballistic Coefficient: .120
- Sectional Density: .102
- Characteristics: Frangible
- Push/Pull: 100/100

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Boxer Primed

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1360</td>
<td>1167</td>
<td>1040</td>
</tr>
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</table>

PACKAGING

- Tray: Item No. 5701
- Box Weight: 1.19 lbs
- Gross Weight: 1.28 lbs
- 50 rounds per box with styrofoam tray

- Carton: Item No. 5716
- Carton Weight: 12.8 lbs
- Carton Dimensions: 6.5” x 5.75” x 14.25”
- 10 boxes per carton | 500 rounds per carton
**TRAINING™**

**357 SIG 90 gr. FRANGIBLE**

**ITEM NO. 91285**

Performance Characteristics:
- Cost effective alternative to standard loads
- Quality coated brass case
- 100% lead free
- Frangible
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0268 lbs

**CASE: 357 SIG**

- Manufacturer’s name (HMC or HORNADY) and caliber designation (357 SIG) imprinted on case head
- Characteristics: Quality coated brass

**BULLET: TRAINING™**

- Ballistic Coefficient: .110
- Sectional Density: .102
- Characteristics: Frangible
- Push/Pull: 80/80

**POWDER & PRIMER**

- Powder: Temperature stable with flash retardant
- Primer: Boxer Primed

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1440</td>
<td>1209</td>
<td>1056</td>
</tr>
</tbody>
</table>

**PACKAGING**

- Tray: Item No. 5703
- Box Weight: 1.19 lbs
- Gross Weight: 1.28 lbs
- 50 rounds per box with styrofoam tray
- Carton: Item No. 5739
- Carton Weight: 12.8 lbs
- Carton Dimensions: 6.875” x 6.625” x 9.375”
- 10 boxes per carton | 500 rounds per carton
**TRAINING™**

**40 S&W 125 gr. FRANGIBLE**

**ITEM NO. 91319**

Performance Characteristics:
- Cost effective alternative to standard loads
- Quality coated brass case
- 100% Lead free
- Frangible
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0464 lbs

**CASE: 40 S&W**

- Manufacturer's name (HMC or HORNADY) and caliber designation (40 S&W) imprinted on case head
- Characteristics: Quality coated brass

**BULLET: TRAINING™**

- Ballistic Coefficient: .122
- Sectional Density: .103
- Characteristics: Frangible
- Push/Pull: 100/100

**POWDER & PRIMER**

- Powder: Temperature stable with flash retardant
- Primer: Lead free

**LOT NUMBERS**

- Lot numbers on each box and case

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>50 yds</th>
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</thead>
<tbody>
<tr>
<td>Velocity (fps)</td>
<td>1210</td>
<td>1069</td>
<td>977</td>
</tr>
</tbody>
</table>

**PACKAGING**

- Tray: Item No. 5703
- Box Weight: 1.53 lbs
- Gross Weight: 1.63 lbs
- 50 rounds per box with styrofoam tray
- Carton Number: 5739
- Carton Weight: 16.3 lbs
- Carton Dimensions: 6.875" x 6.625" x 9.375"
- 10 boxes per carton | 500 rounds per carton
TRAINING™
45 AUTO 145 gr. FRANGIBLE

ITEM NO. 90931

Performance Characteristics:
- Cost effective alternative to standard loads
- Quality coated brass case
- 100% Lead free
- Frangible
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0436 lbs

CASE: 45 AUTO

- Manufacturer’s name (HMC or HORNADY) and caliber designation (45 AUTO) imprinted on case head
- Characteristics: Quality coated brass

BULLET: TRAINING™

- Ballistic Coefficient: .081
- Sectional Density: .102
- Characteristics: Frangible
- Push/Pull: 80/80

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Lead free

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>Muzzle</th>
<th>50 yds</th>
<th>100 yds</th>
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<tbody>
<tr>
<td>1000</td>
<td>936</td>
<td>884</td>
<td></td>
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</tbody>
</table>

PACKAGING

- Tray: Item No. 5703
- Box Weight: 171 lbs
- Gross Weight: 1.83 lbs
- 50 rounds per box with styrofoam tray
- Carton Number: 5739
- Carton Weight: 18.3 lbs
- Carton Dimensions: 6.875” x 6.625” x 9.375”
- 10 boxes per carton | 500 rounds per carton
TRAINING™
223 REM 55 gr. SP

ITEM NO. 80255
Performance Characteristics:
• Cost effective alternative to standard loads
• Quality brass case
• Point of aim/point of impact consistency compared to duty loads of like grain weight
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.1750 lbs

CASE: 223 REMINGTON
• Manufacturer’s name (HMC or HORNADY) and caliber designation (223 REM) imprinted on case head
• Characteristics: Quality coated brass

BULLET: TRAINING™
• Ballistic Coefficient: .235
• Sectional Density: .157
• Bullet Length: 0.705"
• Recommended Rifling
  Twist Rate: 1:7” to 1:12”
• Characteristics: Soft point barrier with cannelure
• Push/Pull: 40/40

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small rifle, Boxer primed

LOT NUMBERS
• Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tbody>
<tr>
<td>Velocity (fps)</td>
<td>3240</td>
<td>2823</td>
<td>2443</td>
<td>2093</td>
<td>1774</td>
<td>1493</td>
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<tr>
<td>Energy (ft lbs)</td>
<td>1282</td>
<td>973</td>
<td>728</td>
<td>535</td>
<td>384</td>
<td>272</td>
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<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-2.9</td>
<td>-11.7</td>
<td>-28.5</td>
<td>-56.4</td>
</tr>
</tbody>
</table>

PACKAGING

• Tray: Item No. 5701
• Box Weight: 1.23 lbs
• Gross Weight: 1.32 lbs
• 50 rounds per box with styrofoam tray

• Carton Number: 5747
• Carton Weight: 13.2 lbs
• Carton Dimensions: 5.625" x 5.937" x 14.75"
• 10 boxes per carton | 500 rounds per carton
ITEM NO. 80275

Performance Characteristics:
- Cost effective alternative to standard loads
- Quality brass case
- Point of aim/point of impact consistency compared to duty loads of like grain weight
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1750 lbs

CASE: 223 REMINGTON

- Manufacturer’s name (Hornady) and caliber designation (223 REM) imprinted on case head
- Characteristics: Quality coated brass

BULLET: TRAINING™

- Ballistic Coefficient: .243
- Sectional Density: .157
- Bullet Length: 0.735"
- Recommended Rifling
  Twist Rate: 1:7” to 1:12”
- Characteristics: Boat tail full metal jacket with cannelure
- Push/Pull: 50/50

POWDER & PRIMER

- Powder: Temperature stable with flash retardant
- Primer: Small rifle, Boxer primed

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th>Velocity (fps)</th>
<th>100 yds</th>
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<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tbody>
<tr>
<td>3240</td>
<td>2836</td>
<td>2467</td>
<td>2126</td>
<td>1816</td>
<td>1537</td>
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<td>1282</td>
<td>982</td>
<td>743</td>
<td>552</td>
<td>403</td>
<td>288</td>
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<tr>
<td>Trajectory (in)</td>
<td>-1.5</td>
<td>0</td>
<td>-2.9</td>
<td>-11.5</td>
<td>-27.6</td>
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</tbody>
</table>

PACKAGING

- Tray: Item No. 5701
- Box Weight: 1.32 lbs
- Gross Weight: 1.41 lbs
- 50 rounds per box with plastic tray
- Carton: Item No. 5747
- Carton Weight: 14.1 lbs
- Carton Dimensions: 5.625” x 5.937” x 14.75”
- 10 boxes per carton | 500 rounds per carton
TRAINING™
223 REM 55 gr. FMJ-BT

ITEM NO. 9754EL
Performance Characteristics:
• Cost effective alternative to standard loads
• Quality coated steel case
• Point of aim/point of impact consistency compared to duty loads of like grain weight
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.1643 lbs

CASE: 223 REMINGTON
• Manufacturer’s name (HMC or HORNADY) and caliber designation (223 REM) imprinted on case head
• Characteristics: Quality coated steel

BULLET: TRAINING™
• Ballistic Coefficient: .243
• Sectional Density: .157
• Bullet Length: 0.735”
• Recommended Rifling Twist Rate: 1:7” to 1:12”
• Characteristics: Boat tail full metal jacket with cannelure
• Push/Pull: 100/80

LOT NUMBERS
• Lot numbers on each box and case

POWDER & PRIMER
• Powder: Temperature stable with flash retardant
• Primer: Small rifle, Berdan primed

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<tr>
<td>Velocity (fps)</td>
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<td>2722</td>
<td>2362</td>
<td>2029</td>
<td>1727</td>
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<td>Energy (ft lbs)</td>
<td>1185</td>
<td>905</td>
<td>681</td>
<td>503</td>
<td>364</td>
<td>261</td>
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<td>Trajectory (in)</td>
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<td>-3.2</td>
<td>-12.7</td>
<td>-30.8</td>
<td>-60.6</td>
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</table>

PACKAGING

• Tray: Item No. 5701
• Box Weight: 1.23 Lbs
• Gross Weight: 1.32 Lbs
• 50 rounds per box with styrofoam tray

• Carton: Item No. 5747
• Carton Weight: 13.2 lbs
• Carton Dimensions: 5.625” x 5.937” x 14.75”
• 10 boxes per carton | 500 rounds per carton
ITEM NO. 9760EL

**Performance Characteristics:**
- Cost effective alternative to standard loads
- Quality coated steel case
- Point of aim/point of impact consistency compared to duty loads of like grain weight
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1700 lbs

---

**BULLET: TRAINING™**

- **Ballistic Coefficient:** .395
- **Sectional Density:** .214
- **Bullet Length:** 0.983"
- **Recommended Rifling**
  - **Twist Rate:** 1:7" to 1:9"
- **Characteristics:** Boat tail hollow point with cannelure
- **Push/Pull:** 100/100

---

**POWDER & PRIMER**

- **Powder:** Temperature stable with flash retardant
- **Primer:** Small rifle, Berdan primed

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**LOT NUMBERS**

- Lot numbers on each box and case

---

**BALLISTIC DATA**

<table>
<thead>
<tr>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
<th>400 yds</th>
<th>500 yds</th>
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<td>Velocity (fps)</td>
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<td>2321</td>
<td>2116</td>
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<td>Energy (ft lbs)</td>
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<td>1072</td>
<td>897</td>
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<td>614</td>
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<td>0</td>
<td>-3.9</td>
<td>-14.3</td>
<td>-32.5</td>
</tr>
</tbody>
</table>

---

**PACKAGING**

- **Tray:** Item No. 5701
- **Box Weight:** 1.38 lbs
- **Gross Weight:** 1.48 lbs
- **50 rounds per box with plastic tray**
- **Carton:** Item No. 5747
- **Carton Weight:** 14.8 lbs
- **Carton Dimensions:** 5.625" x 5.937" x 14.75"
- **10 boxes per carton | 500 rounds per carton**
TRAINING™
5.56 NATO 75 gr. TAP® SBR

ITEM NO. 81292

Performance Characteristics:
- High weight retention
- Large wound cavities
- Barrier blind
- Meets FBI Protocol
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.1650 lbs

CASE: 5.56 NATO

- Manufacturer's name (Hornady) and caliber designation (5.56 NATO) imprinted on case head
- Characteristics: Quality brass

BULLET: TRAINING™

- Ballistic Coefficient: .395
- Sectional Density: .214
- Bullet Length: .983".
- Recommended Rifling Twist Rate: For use in 1:7" twist SBRs.
- Characteristics: Boat tail hollow point with cannellure
- Push/Pull: 75/125

LOT NUMBERS

- Lot numbers on each box and case

BALLISTIC DATA

<table>
<thead>
<tr>
<th></th>
<th>Muzzle</th>
<th>100 yds</th>
<th>200 yds</th>
<th>300 yds</th>
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<th>500 yds</th>
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<tr>
<td>Velocity (fps)</td>
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<td>2105</td>
<td>1911</td>
<td>1728</td>
<td>1560</td>
<td>1408</td>
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<tr>
<td>Energy (ft lbs)</td>
<td>888</td>
<td>738</td>
<td>608</td>
<td>497</td>
<td>405</td>
<td>330</td>
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<tr>
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<td>-6.4</td>
<td>-22.3</td>
<td>-49.9</td>
<td>-91.8</td>
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</table>

PACKAGING

- Tray: Item No. 5701
- Box Weight: 1.38 lbs
- Gross Weight: 1.48 lbs
- 50 rounds per box with styrofoam tray
- Carton: Item No. 5747
- Carton Weight: 14.8 lbs
- Carton Dimensions: 5.625" x 5.937" x 14.75"
- 10 boxes per carton | 500 rounds per carton

POWDER & PRIMER

- Powder: Specifically designed for 10.5" - 11.5" barrels. Low flash, cooler burning, and temperature stable.
- Primer: Small rifle milspec primer, staked primer pocket, sealed primer.
Thank you for participating in our Member Tested and Recommended Program. The 9mm Luger 90 Grain Frangible Rounds have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.34.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in The Tactical Edge journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The **40 S&W 125 Grain Frangible Rounds** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **3.91**.

This product and its review are now listed on the NTOA's Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The **45 AUTO 220 Grain FMJ Training Rounds** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.51**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The **223 REM 55 Grain FMJ-BT Training Rounds** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.96**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

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Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The **223 REM 75 grain BTHP Training Rounds** have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.35**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

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Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
<table>
<thead>
<tr>
<th>12 GA TAP REDUCED RECOIL™</th>
<th>12 GA TAP LIGHT MAGNUM®</th>
</tr>
</thead>
<tbody>
<tr>
<td>**00 Buckshot</td>
<td>Pellet Count: 8**</td>
</tr>
</tbody>
</table>

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

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

### 12 GA 2¾” 1 oz. LIGHT MAGNUM® SLUG

**Rifled Slug**

Hornady TAP® Light Magnum® Rifled Slug (red hull) is loaded to a velocity of 1600 fps (30” test barrel). Reliably functions in smooth bore semi-automatic police shotguns while maintaining SAAMI pressure specifications.

### 12 GA 2¾” 1 oz. REDUCED RECOIL™ SLUG

**Rifled Slug**

Hornady TAP® Reduced Recoil™ Rifled Slug (blue hull) is loaded to a velocity of 1,350 fps (30” test barrel). This rifled slug is designed to be used in pump action shotguns with smooth bore barrels.

### 12 GA FRANGIBLE 3/4 oz. SLUG TAP® ENTRY™

**Frangible Slug**

Hornady 12 Gauge TAP ENTRY is designed to fit a variety of mission applications including entry (limited penetration), breaching, and training. Featuring a ¾ ounce frangible sintered slug, this round produces wound cavities similar to a .308 WIN, yet minimizes the potential for over-penetration. In most cases, a breacher must transition to an alternate weapon before entering a building. TAP ENTRY provides the capability to breach a door and make entry utilizing the same weapon. TAP ENTRY also provides the ability to train on steel silhouettes without concerns for ricochets, since the slug disintegrates upon impact, making this an extremely versatile round.

**NOTE:** Hornady has color coded hulls. The Reduced Recoil load has a blue hull (Blue for Cool) and the Light Magnum® has a red hull (Red for Hot).

This line of ammunition is intended for Law Enforcement sales ONLY.
SHOTGUN
12 GA TAP® REDUCED RECOIL™
00 BUCK

ITEM NO. 86265

Performance Characteristics:
• Hornady TAP® Reduced Recoil™ (blue hull) is a reduced velocity load designed primarily for pump action shotguns. It comes loaded in a blue hull with a load delivering a velocity of 1,100 fps (30” test barrel.)
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0214 lbs

PROJECTILE
• Shot size: 00 Buckshot
• Pellet Count: 8
• Muzzle Velocity: 985 fps
• Firearm: Remington 870 Police Magnum
• Barrel: 18.0”

CASE
• Manufacturer’s name (Hornady) and caliber designation (12 GA) imprinted on case head

LETS & LOT NUMBERS
• Lot numbers on each box and carton

PACKAGING
• Box Weight: .83 lbs
• Gross Weight: .89 lbs
• 10 rounds per box

PRIMER

7 Yards 1.325”
15 Yards 2.687”
25 Yards 4.437”
BARE GELATIN

• Carton: Item No. 84610
• Carton Weight: 8.9 lbs
• Carton Dimensions: 4.562” x 6.0” x 9.875”
• 10 boxes per carton | 100 rounds per carton
SHOTGUN
12 GA TAP® LIGHT MAGNUM®
00 BUCK

ITEM NO. 86275

Performance Characteristics:
- Hornady TAP® Light Magnum® Buckshot (red hull) is loaded to a velocity of 1600 fps (30" test barrel) to ensure proper functioning in semi-automatic police shotguns. The Light Magnum® Buckshot can also be used in pump action shotguns.
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0500 lbs

<table>
<thead>
<tr>
<th>PROJECTILE</th>
<th>CASE</th>
<th>PRIMER</th>
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</thead>
<tbody>
<tr>
<td>Shot size: 00 Buckshot</td>
<td>Manufacturer’s name (Hornady) and caliber designation (12 GA) imprinted on case head</td>
<td></td>
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<tr>
<td>Pellet Count: 8</td>
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<tr>
<td>Muzzle Velocity: 1442 fps</td>
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</tr>
<tr>
<td>Firearm: Benelli M1 Super 90</td>
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</tr>
<tr>
<td>Barrel: 18.0&quot;</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7 Yards 1.875"
15 Yards 2.75"
25 Yards 5.187"
BARE GELATIN

LABELS & LOT NUMBERS
- Lot numbers on each box and carton

PACKAGING
- Box Weight: .89 lbs
- Gross Weight: .95 lbs
- 10 rounds per box
- Carton: Item No. 84610
- Carton Weight: 9.5 lbs
- Carton Dimensions: 4.562" x 6.0" x 9.875"
- 10 boxes per carton | 100 rounds per carton
SHOTGUN
12 GA 2¾" 1 OZ.
REDUCE RECOIL™ RIFLED SLUG

ITEM NO. 86285

Performance Characteristics:
• Hornady TAP® Reduced Recoil™ Rifled Slug (blue hull) is loaded to a velocity of 1350 fps (30" test barrel). This rifled slug is designed to be used in pump action shotguns with smooth bore barrels.
• MADE IN THE USA
• Net Explosive Weight (approx. per box): 0.0136 lbs

PROJECTILE
• Shot size: 1 oz. slug
• Muzzle Velocity: 1199 fps
• Firearm: 870 Police Magnum
• Barrel: 18.0"

CASE
• Manufacturer’s name (Hornady) and caliber designation (12 GA) imprinted on case head

PRIMER

LABELS & LOT NUMBERS
• Lot numbers on each box and carton

PACKAGING
• Box Weight: .47 lbs
• Gross Weight: .50 lbs
• 5 rounds per box
• Carton: Item No. 84481
• Carton Weight: 10.0 lbs
• Carton Dimensions: 4.625" x 5.625" x 11.625"
• 20 boxes per carton | 100 rounds per carton

25 Yards 2.0"
SHOTGUN
12 GA 2\(\frac{3}{4}\)" 1 OZ.
LIGHT MAGNUM® RIFLED SLUG

ITEM NO. 86235

Performance Characteristics:
- Hornady TAP® Light Magnum® Rifled Slug (red hull) is loaded to a velocity of 1600 fps (30" test barrel). Reliably functions in smooth bore semi-automatic police shotguns while maintaining SAAMI pressure specifications.
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0243 lbs

PROJECTILE
- Shot size: 1 oz. slug
- Muzzle Velocity: 1452 fps
- Firearm: Benelli M1 Super 90
- Barrel: 18.0"

CASE
- Manufacturer’s name (Hornady) and caliber designation (12 GA) imprinted on case head

PRIMER

LABELS & LOT NUMBERS
- Lot numbers on each box and carton

PACKAGING
- Box Weight: .48 lbs
- Gross Weight: .51 lbs
- 5 rounds per box
- Carton: Item No. 84481
- Carton Weight: 10.16 lbs
- Carton Dimensions: 4.625" x 5.625" x 11.625"
- 20 boxes per carton | 100 rounds per carton
ITEM NO. 86245

Performance Characteristics:
- Hornady TAP® Entry™ Frangible Slug (black hull) is loaded to a velocity of 1575 fps (30" test barrel). Reliably functions in smooth bore pump police shotguns while maintaining SAAMI pressure specifications.
- MADE IN THE USA
- Net Explosive Weight (approx. per box): 0.0157 lbs

PROJECTILE
- Shot size: 3/4 oz. slug
- Muzzle Velocity: 1434 fps
- Firearm: 870P
- Barrel: 18 1/2"

CASE
- Manufacturer’s name (TAP) and caliber designation (12 GA) imprinted on case head

PRIMER
- Lot numbers on each box and carton

LABELS & LOT NUMBERS

PACKAGING
- Box Weight: .38 lbs
- Gross Weight: .41 lbs
- 5 rounds per box
- Carton: Item No. 84481
- Carton Weight: 8.25 lbs
- Carton Dimensions: 4.625" x 5.625" x 11.625"
- 20 boxes per carton | 100 rounds per carton
Thank you for participating in our Member Tested and Recommended Program. The 12 Gauge TAP Reduced Recoil 00 Buckshot has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.33.

This product and its review are now listed on the NTOA's Member Tested and Recommended online database. The review may also be published in The Tactical Edge journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The **12 Gauge TAP Light Magnum 00 Buckshot** has been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a **4.03**.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The 12 Gauge TAP Reduced Recoil 1 oz. Shotgun Slugs have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.02.

This product and its review are now listed on the NTOA’s Member Tested and Recommended online database. The review may also be published in The Tactical Edge journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in The Tactical Edge journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore
Member Tested and Recommended Program Coordinator
800-279-9127 x116
Thank you for participating in our Member Tested and Recommended Program. The 12 Gauge 1 oz. TAP Light Magnum Rifled Slugs have been tested and recommended by the members of the National Tactical Officers Association. Your overall score was a 4.3.

This product and its review are now listed on the NTOA's Member Tested and Recommended online database. The review may also be published in *The Tactical Edge* journal, as time allows.

Please contact Corey Luby at advertising@ntoa.org if you would like to advertise in *The Tactical Edge* journal. Once again, thank you for participating in the Member Tested and Recommended Program©.

Katina Madianos-Fiore  
Member Tested and Recommended Program Coordinator  
800-279-9127 x116
RIFLE/CARBINE

6.8MM SPC 110gr. V-MAX®
ITEM #83464

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<th>Ballistic Coefficient</th>
<th>Sectional Density</th>
<th>Velocity (fps)</th>
<th>Energy (ft lbs)</th>
<th>Trajectory (inches)</th>
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6.5 GRENDEL 123gr. ELD® MATCH
ITEM #81528

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450 BUSHMASTER 250gr. FTX®
ITEM #82246

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<th>Velocity (fps)</th>
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<th>Trajectory (inches)</th>
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338 LAPUA 285gr. ELD® MATCH
ITEM #82300

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50 BMG 750gr A-MAX®
ITEM #8270

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<td>750 gr. A-MAX (36&quot; Test bbl)</td>
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Short-barreled rifles have skyrocketed in popularity over the last several years, but has the niche outrun the knowledge in the pursuit of ergonomics? There is nothing quite as frustrating as banging the 16th inch of your muzzle on every surface imaginable as you try to smoothly deploy a carbine in CQB, vehicle or urban environments. You can’t have your cake and eat it too, and this applies to SBRs. The largest compromise in the case of the shorter barrel resides in the ballistics department.

In layman’s terms, bullets maintain a point-forward flight based on having enough rotational speed to overcome the resistance of the atmosphere, or drag. If the bullet does not have enough spin, the atmospheric resistance will be greater than the stability of the bullet and cause it to tumble.

Think of a football. If you throw a good spiral with a lot of spin, it will stay point forward all the way to the receiver’s hands. If you throw it with little or no spin, it will quickly tumble and become inaccurate. This is not an apples-to-apples comparison due to the dynamics a bullet encounters during supersonic and transonic flight, but should paint an understandable picture.

**SBR VELOCITIES**

The rotational speed of the bullet is not only a function of the twist rate of the...
barrel, but also the velocity of the bullet. SBRs produce considerably slower muzzle velocities than standard-length barrels. This is simply due to the reduction in time and distance that the expanding gases have to accelerate the bullet in the bore.

An average velocity loss of 20 to 40 feet-per-second (fps) per inch of barrel is not uncommon in .223/5.56mm platforms. This loss in velocity translates into slower bullet RPMs, making the same bullet out of an SBR less stable than one fired in a standard-length barrel. Refer to the table that displays RPM differences due to the velocity lost by using a shorter barrel.

**TWIST RATES**

Obviously the twist rate of the barrel has a large part to play in the rotational speed and stability of the bullet. When dealing with the reduced velocities produced by SBRs, using the fastest approved twist rate will yield the best results with a wider range of bullets. On average, RPM loss from a 1:7 twist compared to a 1:9 twist ranges from 15,000 to 25,000 RPMs. This loss in stability can be significant enough to cause a bullet to tumble in a 1:9 twist but remain stable in a 1:7 twist.

**Bullets**

As bullet weight increases within a given caliber, the bullet becomes longer. The longer the bullet, the more spin required to stabilize it. Without getting too technical, this is a function of leverage. The longer the bullet, the more leverage the atmospheric resistance has to overturn it and cause it to tumble. Shooting a longer, heavier bullet in combination with the reduced velocities and RPMs produced by SBRs is the most common cause of bullet instability.

Using standard-length carbine, shooter has to dip the muzzle to clear the door jamb before coming on target and engaging.

Lifesaving seconds gained by SBR. Shooter can maintain shooting stance, sight picture, and cheek weld while clearing muzzle of door jamb and moving to engage new target.

50-, 53-, 60-, and 80-grain .224 bullets. As bullet weight within a given caliber increases, so does bullet length.
ATMOSPHERIC CONDITIONS
Cold air at lower elevations is denser than hot air at higher elevations. Since certain bullet, twist rate, and velocity combinations are already pushing the envelope for stable/unstable bullet flight in SBRs, a simple change in air density can send it over the edge.

Shooting at a high elevation in the summer may stabilize the bullet perfectly, but heading to the coast in December can easily cause a bullet to tumble.

SAFETY CONCERNS
Shooting an unstable bullet can become a major safety concern, especially when shooting suppressed. The possibility of encountering a baffle strike due to shooting an understabilized bullet is a concern not only to the shooter, but also to those around him.

If the bullet strikes a baffle and makes it out of the suppressor, the remaining flight path is very unpredictable. The Internet is littered with pictures of baffle stuck suppressors that may provide extra motivation to ensure your bullet is stable before suppressing the system.

SHOOTER TESTING
If a shooter isn’t 100% confident in the stability of the bullet he is shooting in a certain condition or platform, a witness paper test can be very useful. For this test, a minimum of two pieces of paper or witness card material can be used to

Witness card test fixture. Simple cardboard box can achieve similar results for a field-expedient test.

Bullet position changes from first card to second card as bullet tumbles.

Results of witness card test. Bullet was traveling nearly sideways as it penetrated both first and second witness cards.
record a bullet’s position in flight. Utilizing more than two pieces will give the shooter a more representative test result. This test will not only expose a bullet that has completely lost stability and is tumbling end over end, but will also show bullet yaw.

Bullet yaw may not be to the stage of an end-over-end tumble, but can be enough to cause a baffle strike at worst and accuracy issues at best. Another option is the use of a bullet stability calculator. A valuable resource, these calculators are available online but require accurate bullet length inputs for proper calculations. If factory ammunition is used, a kinetic bullet puller can be used to safely remove the bullet from the case and measured with calipers.

**SBR TERMINAL PERFORMANCE**

If an SBR is going to be used for hunting or defensive purposes, the reduction in velocity and RPM can have a dramatic effect on terminal performance of bullets. Bullets designed to expand or reduce the possibility for overpenetration can function terminally like an FMJ.

Lack of velocity may not be enough to initiate expansion, causing a through-and-through shot, resulting in overpenetration. Most expanding-style bullets are designed to remain point forward during terminal performance to allow for expansion of the bullet.

The lack of RPMs may still stabilize the bullet in flight, but once it encounters the increased resistance of a medium, it may be enough to overturn the bullet and cause it to tumble instead of remaining point forward and expanding as designed.

**CONCLUSION**

SBRs have developed a significant following in military, law enforcement, and civilian circles for good reason. Their ergonomics, portability, and manipulation benefits give the user an unparalleled advantage when working in close down-and-dirty environments.

As with everything, pros and cons are always present. In the case of the SBR, most of the cons can be avoided through knowledge and testing.

Jayden Quinlan works as a Ballistic Engineering Technician in research and development at Hornady Manufacturing.
When encountering barriers, an expanding style bullet needs to be built strong enough to stay together and maintain the mass needed to achieve penetration. A core jacket separation is the worst case scenario for a bullet that penetrates a barrier. The forces encountered by the bullet as it penetrates the barrier cause the lead core to separate from the jacket. The energy the bullet had is now divided into two or more independent pieces resulting in under penetration.

Bonding the bullet has been the most popular method of eliminating this issue. During the bonding process, the core is essentially welded to the jacket. This process will eliminate the core jacket separation issue, but induces other performance issues in the process.

Bonding requires the use of pure lead, the softest consistency used in bullet manufacturing. The use of pure lead combined with the bonded jacket and core makes consistent expansion through barriers difficult to achieve. The resistance of the barrier typically crushes and deforms a bonded bullet excessively due to the use of the softer pure lead. This excessive deformation results in either under penetration or erratic penetration as it is now the consistency of the barrier that will determine the amount of deformation, which effects expansion, not the design features of the bullet. Typically a harder barrier will cause more deformation resulting in less penetration. A softer barrier will cause less deformation resulting in more penetration.

Hornady has taken a different approach to performance through barriers. Instead of the “one size fits all” fix of bonding the bullet, the bullet in Critical Duty ammunition was built with specific design features to control performance through each barrier. Not bonding the bullet allows for the use of harder lead antimonies. This reduces the crushing and deformation of pure lead, and allows the core to aid in controlling expansion. Core jacket separation is prevented by utilizing the InterLock® design similar to that used in big game hunting bullets. This design mechanically locks the jacket and core without compromising other performance characteristics of the bullet. Controlled and consistent expansion is achieved by the use of a patented polymer tip material that prevents clogging and initiates expansion through different material consistencies. The controlled and consistent expansion results in consistent penetration.

A bonded bullet approaches barrier performance with a reactive design; its main purpose being the prevention of jacket core separations. Critical Duty is designed with a proactive approach by using specific design features to control performance through each of the FBI Protocol test barriers.
For use in short barreled rifles, Hornady recommends 223 Rem 55 gr. TAP URBAN against soft targets (no barrier penetration). For hard targets (barrier penetration), the 5.56 NATO 62 gr. BARRIER load is recommended.

Multiple shot testing was conducted to determine the effect of successive shots through auto glass representing a windshield, and sheet metal representing a car door.

The following tests were conducted in the Hornady Ballistics Lab using a 10.4” HK 416 1:7” twist.

### 223 REM 55 GR. TAP URBAN: BARE

Avg Muzzle Velocity: 2543 fps

**Analysis:** The reduced velocities produced by the 10.4” barrel did not have a major effect on terminal performance when compared to a 16” barrel. Penetration and retained weight of bullet were nearly identical to published data for a 16” barrel fired into bare gelatin.

### 5.56 NATO 62. GR. BARRIER: GLASS

Avg Muzzle Velocity: 2603 fps

**Shot 1:** New piece of unshot double pane laminated automotive glass.

**Shot 2:** Round impacted within area of eroded glass from shot 1.

**Shot 3:** Impacted 1 ¼” from previous two shots. Glass was fractured by prior shots but not eroded.

**Analysis:** As the glass is weakened by additional shots, its damaging effect on each successive bullet is lessened. A bullet traveling through the eroded area of glass from a prior shot showed performed similar to bare gelatin and had the least damaging effects on the bullet. A bullet traveling through fractured but not eroded glass performed similar to unshot glass, but penetrated slightly deeper. Damage to bullet fired through fractured glass was similar to damage from unshot glass.
Conclusion:
Reduced velocities produced by the SBR did not lessen or prevent complete bullet fragmentation of the 223 Rem 55 gr. TAP URBAN load. The possibility of over penetration is still mitigated when fired out of an SBR.

Damage to auto glass from previous shots and location of successive shots have a large effect on the terminal performance of the 5.56 NATO 62 gr. TAP BARRIER when fired in an SBR. Terminal performance can be similar to published data out of a 16” barrel for bare gelatin or glass depending on shot location.

Damage to sheet metal from previous shots doesn’t seem to have a large effect on terminal performance of the 5.56 NATO 62 gr. TAP BARRIER. Penetration numbers are slightly higher for sheet metal when fired out of an SBR due to the reduced velocities produced by the shorter barrel.

Analysis: The effects of previous shots in sheet metal are much more localized when compared to multiple rounds in glass. Damage to bullets by sheet metal showed more consistency even when shot into a portion of the divot left by a prior shot. Penetration numbers for the 3 shot groups through steel performed more consistently than 3 shots through glass.
Hornady® Patents

U.S. Patent: 8,161,885 | 8,413,587

U.S. Patent: 6,481,916

U.S. Patent: 6,895,865
Lock-N-Load® Speed Sabot, SST® ML™ Speed Sabot®

U.S. Patent: 7,011,028
17 Mach 2, Mach 2, 17M2

U.S. Patent: 7,380,502
FlexTip®, FTX® Bullets, LEVERevolution®, MonoFlex®

U.S. Patent: 8,276,494
Pistol Bullet Feed Dies, Lock-N-Load® Bullet Feeders, Lock-N-Load® Pistol Bullet Feeder Dies

U.S. Patent: 8,443,729
300 RCM and 338 RCM loaded in Superformance® Ammunition

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Various Hornady products are protected by one or more of the following U.S. Patents: 6,481,916; 6,895,865; 7,011,028; 7,380,502; 7,395,746; 8,161,885; 8,276,494; 8,413,587; 8,443,729. Other patents pending.