

HANDGUN AMMUNITION 101

ANATOMY OF A HANDGUN CARTRIDGE



CASE DESIGN: There are two basic pistol cartridge designs. Cartridges used in revolvers or single shot pistols are generally rimmed, where the case head has a rim that extends beyond the case wall. Common revolver calibers are 38 Special, 357 Magnum and 44 Magnum. Semi-automatic handguns generally utilize a rimless cartridge, where the head of the cartridge does not extend beyond the diameter of the case walls, and an extractor groove is cut into the base to enable the extractor on the firearm to grip the cartridge. Common semi-automatic calibers include 9mm, 40 S&W and 45 Auto.

PROTOCOL PROVEN

FBI Test Protocol requires the use of calibrated 10 percent ballistic gelatin. Bullets are scored based on the following criteria:

- Penetration: Minimum of 12 inches and maximum of 18
- Expansion: Expanded diameter should be 1.5 times the original bullet diameter
- Weight Retention: Should be as close to 100 percent as possible through bare gel

The ammunition test protocol is composed of six test events shot at 10 feet.

- Bare gelatin
- Heavy clothing
- Steel
- Wallboard
- Plywood
- Auto glass



BULLET STYLES

As with all ammunition, the projectile itself plays a tremendous role in how a given round performs and how it should be used. That's why manufacturers have developed a vast array of bullets, each designed around a specific purpose. For defense and duty rounds, it's critical that the bullet expands consistently. This increases the size of the crushing path of the bullet, as well as serves to prevent over-penetration.

<p>HST® & Hydra-Shok Deep®</p>	<p>NON-BONDED JACKETED HOLLOW-POINT</p> <ul style="list-style-type: none"> • Designed to expand • Deep penetration • High weight retention through all barriers 	<p>NON-LEAD</p> <ul style="list-style-type: none"> • 100 percent lead-free construction • Hollow-point copper projectile • Effective expansion and penetration 	<p>TOTAL SYNTHETIC JACKET (TSJ®)</p> <ul style="list-style-type: none"> • Lead core • Polymer jacket • Reduces barrel heat and friction • Eliminates metal barrel fouling • Reduces splash-back on hard targets
<p>Lawman® TMJ®</p>	<p>TOTAL METAL JACKET (TMJ)</p> <ul style="list-style-type: none"> • Lead core 100 percent encapsulated by copper jacket • Feeds reliably in semi-auto handguns • Does not expand on impact 	<p>SEMI-WADCUTTER HOLLOW POINT</p> <ul style="list-style-type: none"> • Designed to cut clean holes in paper targets • Lead construction 	<p>FRANGIBLE</p> <ul style="list-style-type: none"> • Breaks apart on impact with hard targets • Minimizes splash-back • Perfect for indoor close-range shooting • Lead-free
<p>Gold Dot® & Gold Dot G2®</p>	<p>BONDED JACKETED HOLLOW-POINT</p> <ul style="list-style-type: none"> • Structural-plated, pressure-formed core • Uni-Cor® bonding • Consistent expansion and high weight retention • G2 is the most technologically advanced design in the category 	<p>FULL METAL JACKET</p> <ul style="list-style-type: none"> • Ball ammunition • Feeds reliably in semi-auto handguns • Does not expand on impact • Lead bullet covered by copper; lead base exposed 	<p>SYNTHETIC JACKET SOLID</p> <ul style="list-style-type: none"> • Deep penetration • Non-expanding • Polymer jacket

GOLD DOT CONSTRUCTION

1. The Gold Dot bullet begins with an alloyed lead core.
2. Gold Dot technology bonds an incredibly uniform jacket to the core—one atom at a time.
3. First stage of the patented two-stage hollow point process creates memory lines expansion can follow.
4. Second forming stage finishes the cavity to match bullet weight and velocity, producing a smooth leading edge for reliable feeding, and a uniform heel for superb accuracy.

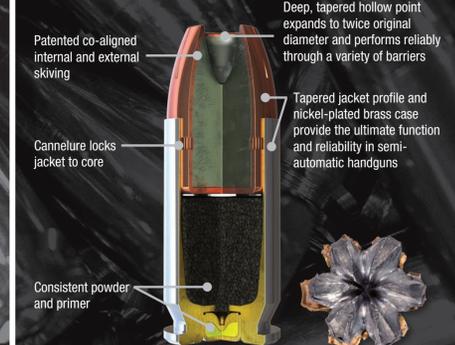
GOLD DOT



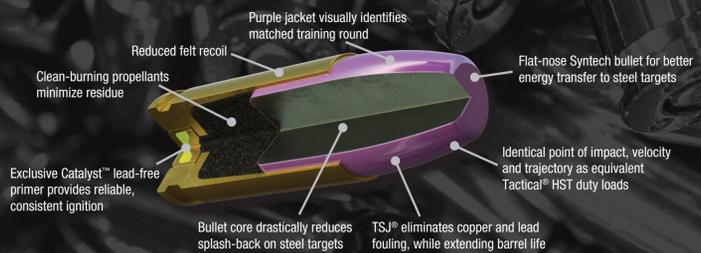
GOLD DOT G2



TACTICAL HST



SYNTECH TRAINING MATCH



CATALYST PRIMER TECHNOLOGY

Catalyst lead-free primer technology provides the most reliable, consistent ignition possible in handgun range ammunition.



WHY FMJ BULLETS BELONG ONLY AT THE RANGE

- FMJs:**
- Accurate and affordable
 - Perfect for training, plinking and competition
 - Available in most calibers and grain weights
- FMJs DO NOT:**
- Expand
 - Stop within the target, penetrating additional barriers such as walls and posing a serious threat to bystanders



SELF-DEFENSE BULLETS:

- Specifically designed for self-defense
- Expand to a diameter larger than original bullet
- Specially designed ammunition like Federal Premium® HST and Hydra-Shok Deep, as well as Speer Gold Dot and Gold Dot G2, are ideal choices and are calibrated to penetrate deep enough to stop the threat with less risk to others nearby



AMERICAN EAGLE TRAINING HANDGUN



- Clean-burning powders
- Quality primers and brass
- Wide selection of calibers and bullet weights to match defense rounds
- FMJ bullet

AMERICAN EAGLE INDOOR RANGE TRAINING



- Bullet is encapsulated in copper for reduced lead exposure and safer indoor training
- Toxic-Metal Free® primer
- Ballistic equivalent of duty rounds

LAWMAN



- Loaded with Speer TMJ bullets
- Bonded jacket encapsulates the lead core
- Consistent and affordable



LAWMAN, 45 AUTO 230-GRAIN
Five shots hand-held at 50 feet, 1.125-inch group