

2005 HUNTING • COMPETITION • LAW ENFORCEMENT PRODUCTS

PMIC[®]
A M M U N I T I O N



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A M M U N I T I O N

CREATING A LEGEND... ONE SHOOTER AT A TIME

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**CREATING
A LEGEND...
ONE SHOOTER
AT A TIME**

PMC

NEW FOR 2005!



At PMC we are planning to attack this year, with new products, new packaging and a new attitude.

For starters, we have redesigned all of our packages to more closely reflect the high quality of our product. All calibers of our PMC Green line are now in production, and we have added three sweet new items – the .22 Short, the .22SSCAT (Super Subsonic Category)... and our new .17 PMC is a must see.

We are a proud American company, with vast international experience that allows us to offer the best of products from the U.S. and from the world over. For almost four decades, we have worked hard to establish a tradition of trust and reliability of product that allows us to create long-term relationships with dealers and shooters around the world.

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PMC SHOOTING SAFETY EXPRESS

Our two rolling showrooms traverse the nation, visiting local dealers, distributors and gun shows.



GOLD LINE HANDGUN

- 32 Auto** - 70 Grs. SFHP (32SFA)
- 9mm Luger** - 147 Grs. SFHP (9SFF)
- 38 Special +P** - 110 Grs. SFHP (38SFB)



BRONZE LINE HANDGUN

- 9mm Luger** - 124 Grs. LRN (9E)
- 9mm Luger** - 147 Grs. FMJ (9F)
- 9x21 IMI** - 123 Grs. FMJ (9x21)



GOLD LINE RIFLE

- 3030 Win** - 150 grs. Starfire HP (3030SFA)



SILVER LINE RIFLE

- 25-06 Rem** - 100 grs. SPBT (2506VA)
- 300 Win Mag** - 180 grs. HPBT (300SMA)
- 30-06 Sprg** - 180 grs. HPBT (3006SMB)



BRONZE LINE RIFLE

- 308 Win** - 168 grs. PSP (308E)



NON-TOXIC / FRANGIBLE

- 380 Auto** - 77 grs. NT/FR (380HRA)
- 30-06 Win** - 100 grs. NT/FR (3006HRA)



RIMFIRE

- .17 PMC** - 20 grs. JSP (.17PMC)
- .22 Short** - 29 grs. LS (22SH)
- .22 L.R. Super Subsonic Category** - 20 grs. LS (22SCAT)



SHOTSHELLS



PMC ULTIMATE HIGH VELOCITY SHOTSHELLS

Without question these 2 $\frac{3}{4}$ " (3" in .410 bore) shotshells are among the fastest available on the market today. They're just getting started where standard high velocity shells run out of steam. Hard, nickel plated shot means enhanced penetration at the longer ranges, tighter patterns and reduced feather and hair draw on upland birds and small game. The $\frac{1}{4}$ oz. shot load of the 12 gauge shell, pushed by its MAX dram equiv. powder charge, leaves the muzzle at an ultimate 1,400 fps – outrunning standard high velocity loads! This super-fast new shell is also available in 20 ga. (1 oz. shot, 1,300 fps), 28 ga. ($\frac{7}{8}$ oz. shot, 1,250 fps) and 410 bore (3" only, $\frac{11}{16}$ oz. shot, 1,135 fps). Shot sizes range from #4 to #9.

TURKEY SPECIFIC

PMC's Magnum Turkey Specific loads deliver superior performance for the serious hunter. Our high grade, copper plated shot is protected by polymer buffering to maintain light, turkey-swatting pattern density at the longer ranges. These maximum dram equivalent, high velocity shells also feature PMC's extra clean burning powder.



SHOTSHELL PRODUCTS

SILVER LINE



HEAVY FIELD SPECIFIC An excellent choice for small game and the larger, tougher upland birds. The heavy powder charge means greater power for solid penetration and clean kills at the longer ranges. For hunters who appreciate the lighter weight and lesser recoil of the smaller gauges, PMC also offers its popular Heavy Field Load in 16 and 20 gauges in 2¾" length.



EXTRA HEAVY FIELD SPECIFIC

This specific contains four dram equiv. powder charge and 1⅓ oz. of shot to give you the added power and reach you need. Achieves a muzzle velocity of 1,300 fps. Available in 12 ga. only, in 4, 5, 6 and 7.5 shot sizes.



HEAVY GAME

This shell provides plenty of power to knock down the larger upland birds and small game. This 2¾" Heavy Game shell will easily handle your requirements for regular season hunting. 12 ga. only, in 5, 6, 7.5, 8 and 9 shot sizes.



PMC STEEL SHOTSHELLS

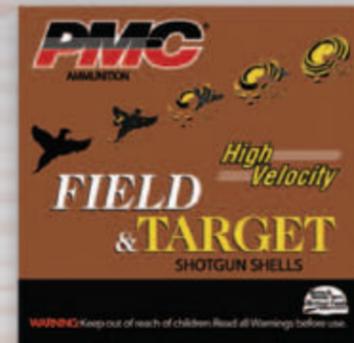
We invite you to compare the price, quality and performance of PMC high velocity steel shotshells to competitive steel shells. You'll discover that the performance is excellent, and you'll also find that PMC gives you a full 1⅓ ounces of shot in our 2¾" shells, a 1¼ ounce load in our 3" magnum and a 1⅓ ounce load in our 3½" super magnum lengths.

BRONZE LINE



FIELD & TARGET

The Field & Target specific combines the dense patterning and target smashing performance of a PMC clay target shell with the solid penetration necessary for taking game. It is perfect for club & league shooting as well as for hunting upland birds and small game



FIELD & TARGET HIGH VELOCITY

This high velocity specific gives you added power to increase penetration when you're trying to take a gamebird across the field or hit that long-range target. Powder was maintained at 3 dram while shot load was reduced to 1 oz. (in 7.5, 8 and 9 sizes) thus increasing velocity from 1,230 to 1,250



BUCKSHOT SPECIFICS

PMC offers three hard-hitting buckshot specifics, including high velocity, 9-pellet 00 load for law enforcement and big game hunting; a shoulder-saving low recoil, 9-pellet 00 load for law enforcement, home and personal defense, and predator hunting; and a lesser penetrating, 27-pellet #4 buck load that can be used for hunting, practice or home defense.



RIFLED SLUG

This accurate rifled slug leaves the muzzle at 1,600 fps, providing tremendous striking power, even at long ranges. A special plastic wad cushions the recoil, allowing quick recovery for fast, accurate second shots.



SABOT SLUG

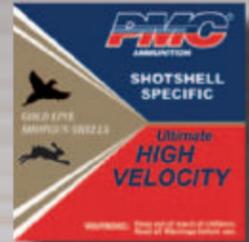
While it can be fired from a smooth bore, this sabot slug reaches its full accuracy when fired from a rifled shotgun barrel.

SHOTSHELL BALLISTICS

ITEM NO.	SHELL TYPE	GAUGE	LENGTH (INCHES)	DRAM EQUIV.	MUZZLE VELOCITY	OUNCES OF SHOT	SHOT SIZE
TL124	TURKEY SPECIFIC	12	3	MAX	1210	2	4
TL126	TURKEY SPECIFIC	12	3	MAX	1210	2	6
HV124	HIGH VELOCITY SPECIFIC	12	2¾	MAX	1400	1¼	4
HV125	HIGH VELOCITY SPECIFIC	12	2¾	MAX	1400	1¼	5
HV126	HIGH VELOCITY SPECIFIC	12	2¾	MAX	1400	1¼	6
HV127.5	HIGH VELOCITY SPECIFIC	12	2¾	MAX	1400	1¼	7.5
HV128	HIGH VELOCITY SPECIFIC	12	2¾	MAX	1400	1¼	8
HV205	HIGH VELOCITY SPECIFIC	20	2¾	MAX	1300	1	5
HV206	HIGH VELOCITY SPECIFIC	20	2¾	MAX	1300	1	6
HV207.5	HIGH VELOCITY SPECIFIC	20	2¾	MAX	1300	1	7.5
HV208	HIGH VELOCITY SPECIFIC	20	2¾	MAX	1300	1	8
HV286	HIGH VELOCITY SPECIFIC	28	2¾	MAX	1250	7/8	6
HV287.5	HIGH VELOCITY SPECIFIC	28	2¾	MAX	1250	7/8	7.5
HV288	HIGH VELOCITY SPECIFIC	28	2¾	MAX	1250	7/8	8
HV289	HIGH VELOCITY SPECIFIC	28	2¾	MAX	1250	7/8	9
HV416	HIGH VELOCITY SPECIFIC	410	3	MAX	1135	11/16	6
HV417.5	HIGH VELOCITY SPECIFIC	410	3	MAX	1135	11/16	7.5
HV418	HIGH VELOCITY SPECIFIC	410	3	MAX	1135	11/16	8
HV419	HIGH VELOCITY SPECIFIC	410	3	MAX	1135	11/16	9
HF124	HEAVY FIELD SPECIFIC	12	2¾	3¾	1330	1¼	4
HF125	HEAVY FIELD SPECIFIC	12	2¾	3¾	1330	1¼	5
HF126	HEAVY FIELD SPECIFIC	12	2¾	3¾	1330	1¼	6
HF127.5	HEAVY FIELD SPECIFIC	12	2¾	3¾	1330	1¼	7.5
HF164	HEAVY FIELD SPECIFIC	16	2¾	3¾	1295	1/8	4
HF165	HEAVY FIELD SPECIFIC	16	2¾	3¾	1295	1/8	5
HF166	HEAVY FIELD SPECIFIC	16	2¾	3¾	1295	1/8	6
HF167.5	HEAVY FIELD SPECIFIC	16	2¾	3¾	1295	1/8	7.5
HF206	HEAVY FIELD SPECIFIC	20	2¾	2¾	1200	1	6
HF207.5	HEAVY FIELD SPECIFIC	20	2¾	2¾	1200	1	7.5
HF208	HEAVY FIELD SPECIFIC	20	2¾	2¾	1200	1	8
EHF124	EXTRA HEAVY FIELD SPECIFIC	12	2¾	4	1320	1/8	4
EHF125	EXTRA HEAVY FIELD SPECIFIC	12	2¾	4	1320	1/8	5
EHF126	EXTRA HEAVY FIELD SPECIFIC	12	2¾	4	1320	1/8	6
EHF127.5	EXTRA HEAVY FIELD SPECIFIC	12	2¾	4	1320	1/8	7.5
HG125	HEAVY GAME SPECIFIC	12	2¾	3¾	1255	1/8	5
HG126	HEAVY GAME SPECIFIC	12	2¾	3¾	1255	1/8	6
HG127.5	HEAVY GAME SPECIFIC	12	2¾	3¾	1255	1/8	7.5
HG128	HEAVY GAME SPECIFIC	12	2¾	3¾	1255	1/8	8
HG129	HEAVY GAME SPECIFIC	12	2¾	3¾	1255	1/8	9

GOLD

SILVER



ITEM NO.	SHELL TYPE	GAUGE	LENGTH (INCHES)	DRAM EQUIV.	MUZZLE VELOCITY	OUNCES OF SHOT	SHOT SIZE
SS12BB	STEEL SHOT SPECIFIC	12	2¾	MAX	1365	1/8	BB
SS122	STEEL SHOT SPECIFIC	12	2¾	MAX	1365	1/8	2
SS123	STEEL SHOT SPECIFIC	12	2¾	MAX	1365	1/8	3
SS124	STEEL SHOT SPECIFIC	12	2¾	MAX	1365	1/8	4
SS126	STEEL SHOT SPECIFIC	12	2¾	MAX	1365	1/8	6
SS127.5	STEEL SHOT SPECIFIC	12	2¾	MAX	1365	1/8	7.5
SS128	STEEL SHOT SPECIFIC	12	2¾	MAX	1365	1/8	8
SSM12BBB	STEEL SHOT SPECIFIC	12	3	MAX	1425	1¼	BBB
SSM12BB	STEEL SHOT SPECIFIC	12	3	MAX	1425	1¼	BB
SSM122	STEEL SHOT SPECIFIC	12	3	MAX	1425	1¼	2
SSM123	STEEL SHOT SPECIFIC	12	3	MAX	1425	1¼	3
SSM124	STEEL SHOT SPECIFIC	12	3	MAX	1425	1¼	4
SSG12T	STEEL SHOT SPECIFIC	12	3½	MAX	1450	1¾	T
SSG12BB	STEEL SHOT SPECIFIC	12	3½	MAX	1450	1¾	BB
SSG122	STEEL SHOT SPECIFIC	12	3½	MAX	1450	1¾	2
FT125	FIELD & TARGET SPECIFIC	12	2¾	3	1230	1/8	5
FT126	FIELD & TARGET SPECIFIC	12	2¾	3	1230	1/8	6
FT127.5	FIELD & TARGET SPECIFIC	12	2¾	3	1230	1/8	7.5
FT128	FIELD & TARGET SPECIFIC	12	2¾	3	1230	1/8	8
FT129	FIELD & TARGET SPECIFIC	12	2¾	3	1230	1/8	9
FT287.5	FIELD & TARGET SPECIFIC	28	2¾	MAX	1220	¾	7.5
FT288	FIELD & TARGET SPECIFIC	28	2¾	MAX	1220	¾	8
FT289	FIELD & TARGET SPECIFIC	28	2¾	MAX	1220	¾	9
FT417.5	FIELD & TARGET SPECIFIC	410	2½	MAX	1220	½	7.5
FT418	FIELD & TARGET SPECIFIC	410	2½	MAX	1220	½	8
FT419	FIELD & TARGET SPECIFIC	410	2½	MAX	1220	½	9
FTH127.5	FIELD & TARGET SPECIFIC	12	2¾	3	1250	1	7.5
FTH128	FIELD & TARGET SPECIFIC	12	2¾	3	1250	1	8
FTH129	FIELD & TARGET SPECIFIC	12	2¾	3	1250	1	9
FTH207.5	FIELD & TARGET SPECIFIC	20	2¾	2½	1230	7/8	7.5
FTH208	FIELD & TARGET SPECIFIC	20	2¾	2½	1230	7/8	8
FTH209	FIELD & TARGET SPECIFIC	20	2¾	2½	1230	7/8	9
BSH1200	BUCKSHOT (Heavy)	12	2¾	MAX	1325	9-Pellet	00 Buck
BSL1200	BUCKSHOT (Light)	12	2¾	3	1140	9-Pellet	00 Buck
BS124	BUCKSHOT # 4	12	2¾	MAX	1325	27-Pellet	4 Buck
SL12B1	SLUG	12	2¾	MAX	1600	1	Slug
SL12B2	SABOT SLUG	12	2¾	MAX	1600	7/8	Slug

SILVER

BRONZE



This ballistics table was calculated by using current data for each load. Velocity figures are from test barrels; user velocities may vary from loads listed. The data in the table represents the approximate behavior of each loading under the following conditions: 59°F, barometric pressure of 29.52 inches, sea level altitude.

OPTIMA



OUR LINE OF RANGE SHOTSHELLS DESIGNED SPECIFICALLY FOR COMPETITIVE SHOOTERS

We are proud to announce the introduction of an extensive line of superior shotshells geared to the rigorous demands of the competitive shooter. These reasonably priced shells, which will be available only at shooting ranges, are designed to assist the serious competitor in achieving the best scores he is capable of producing.

Our engineers have extensive experience in the world of Sporting Clays, Trap and Skeet shooting, and for more than 20 years have followed and technically assisted shooters and national teams on five continents. The expertise developed during these years has been put to use in the development of our Optima line.

When we set out to design Optima shotshells, our guiding principle was to produce the best range of ammunition for competitors and you will find no compromise in the design or the components of this premium line of shells.

European Single-Base Powders These excellent powders were developed exclusively for shotshell use, and burn exceptionally cleanly, keeping your shotgun functioning smoothly over an extended shooting session. The purity of these powders also allows for lower pressures at higher velocities, so that felt recoil is reduced without compromising performance.

Italian Wads Designed exclusively for PMC Optima shells, these excellent wads from the Baschieri & Pellagri and Gualandi firms feature optimal gas seals for more constant velocities, which results in greater consistency of performance and accuracy because of reduced standard deviation. The prefabricated shotcup completely encloses the shot as it travels through the barrel, then opens and falls away, leaving the shot string to travel to the target unimpeded. This protects the shot from becoming flattened and misshapen by contacting the sides of the barrel. Built-in shock absorbers in the wads also protect the shot column from the shock of ignition, and help lessen felt recoil.

Other High Performance Components European primers (209 size) and strong, reloadable plastic hulls, combined with lead shot that has been selected for roundness for optimal patterning are used in Optima shells. In addition, the antimony content in the shot used in our high performance competition loads is an amazing 5%, contributing to their target-smashing power.

Introducing the NEW PMC OPTIMA Paper Shotshell! Designed to meet the demands of the discerning sporting shooter, PMC Optima's new Paper Competition shotshells marry the latest and greatest competitive components with the look and feel of a well crafted ballistic shell. Optima Paper delivers both high levels of performance and comfort to the competitive shooter.

Ask for PMC Optima Shotshells at your favorite shooting range!

OPTIMA BALLISTICS

TARGET & COMPETITION LOADS

Optima Target - 12 Ga. For general purpose target shooting, including Trap and Sporting Clays, Optima Target 12 gauge shells are available in 7½, 8, 8½ and 9 shot sizes. They are loaded with one ounce of 3% antimony shot, and carry a three Dram Equivalent propellant (SBT 6-type powder) charge, producing a muzzle velocity of 1,250 ft/sec to reach out and smash those far away targets. The wad type is B&P h.27, and the plastic hull is closed with a six point star.

Optima Competition - 12 Ga. We designed this shell specifically for competition. Its high quality components are geared for complete reliability and top performance. It delivers slightly less muzzle velocity (and recoil) than the Target shell at 1,230 ft/sec, but still provides outstanding power for the longer shots. It is available in 7½, 8, 8½ and 9 shot sizes, and features a three Dram Equivalent charge of extra clean-burning powder, one ounce of 3% antimony shot, a B&P h.27 wad, 209 primer and six point star closure.

Optima Competition Lite - 12 Ga. For competition shooters who prefer a lighter recoiling shell. Easier on the shoulder during extended shooting sessions, this excellent shell has all of the outstanding features and components of the Competition shell described above, but with a reduced powder charge. Its 2¾ Dram Equivalent load produces a muzzle velocity of 1,185 ft/sec.

Optima Trap/Sporting - 12 Ga. For Trap and Sporting Clays shooters. This hard-hitting shell delivers a full 1½ ounce load of extra-hard, 3% antimony shot, enclosed in a special B&P h.21 wad. It is pushed to 1,230 ft/sec by a three Dram Equivalent charge of special propellant (SBT 5-type powder) to help you reduce those clays to a puff of dust. It is available in all four shot sizes and incorporates all of the other desirable features and components of the Optima shells described above.

Optima Trap/Sporting Lite - 12 Ga. This is the same Trap/Sporting shell as above, but with a slightly reduced, 2¾ Dram Equivalent powder charge to make it easier on your shoulder, and a modified wad (B&P h.24) especially designed to provide top performance with this powder and shot charge.

ITEM NO.	DESCRIPTION	SIZE	COLOR	CRIMP	DRAM equiv	SHOT weight	VEL. ft/sec	VEL. m/sec	ANTI-MONIUM %	WAD type	POWDER type	PSI	USE
OT1275	Optima Target 12 ga. #7.5	12/70/10	Black	star 6 point	3 dr.	1 oz.	1250	380	3	B&P h.27	SBT 6	8850	All purpose Sporting Trap
OT128	Optima Target 12 ga. #8	12/70/10	Black	star 6 point	3 dr.	1 oz.	1250	380	3	B&P h.27	SBT 6	8850	All purpose Sporting Trap
OT1285	Optima Target 12 ga. #8.5	12/70/10	Black	star 6 point	3 dr.	1 oz.	1250	380	3	B&P h.27	SBT 6	8850	All purpose Sporting Trap
OT129	Optima Target 12 ga. #9	12/70/10	Black	star 6 point	3 dr.	1 oz.	1250	380	3	B&P h.27	SBT 6	8850	All purpose Sporting Trap
OCH1275	Optima Competition 12 ga. #7.5	12/70/12	Black	star 6 point	3 dr.	1 oz.	1230	375	3	B&P h.27	SBT 6	8850	Am. Trap-Sporting
OCH128	Optima Competition 12 ga. #8	12/70/12	Black	star 6 point	3 dr.	1 oz.	1230	375	3	B&P h.27	SBT 6	8850	Am. Trap-Sporting
OCH1285	Optima Competition 12 ga. #8.5	12/70/12	Black	star 6 point	3 dr.	1 oz.	1230	375	3	B&P h.27	SBT 6	8850	Am. Trap-Sporting
OCH129	Optima Competition 12 ga. #9	12/70/12	Black	star 6 point	3 dr.	1 oz.	1230	375	3	B&P h.27	SBT 6	8850	Am. Trap-Sporting
OCL1275	Optima Competition Lite 12 ga. #7.5	12/70/12	Black	star 6 point	2¾ dr.	1 oz.	1185	362	3	B&P h.27	SBT 6	8350	Am. Trap-Sporting
OCL128	Optima Competition Lite 12 ga. #8	12/70/12	Black	star 6 point	2¾ dr.	1 oz.	1185	362	3	B&P h.27	SBT 6	8350	Am. Trap-Sporting
OCL1285	Optima Competition Lite 12 ga. #8.5	12/70/12	Black	star 6 point	2¾ dr.	1 oz.	1185	362	3	B&P h.27	SBT 6	8350	Am. Trap-Sporting
OCL129	Optima Competition Lite 12 ga. #9	12/70/12	Black	star 6 point	2¾ dr.	1 oz.	1185	362	3	B&P h.27	SBT 6	8350	Am. Trap-Sporting
OSP1275	Optima Trap/Sporting 12 ga. #7.5	12/70/12	Black	star 6 point	3 dr.	1½ oz.	1230	375	3	B&P h.21	SBT 5	7980	Am. Trap-Sporting
OSP128	Optima Trap/Sporting 12 ga. #8	12/70/12	Black	star 6 point	3 dr.	1½ oz.	1230	375	3	B&P h.21	SBT 5	7980	Am. Trap-Sporting
OSP1285	Optima Trap/Sporting 12 ga. #8.5	12/70/12	Black	star 6 point	3 dr.	1½ oz.	1230	375	3	B&P h.21	SBT 5	7980	Am. Trap-Sporting
OSP129	Optima Trap/Sporting 12 ga. #9	12/70/12	Black	star 6 point	3 dr.	1½ oz.	1230	375	3	B&P h.21	SBT 5	7980	Am. Trap-Sporting
OSPL1275	Optima Trap/Sporting Lite 12 ga. #7.5	12/70/12	Black	star 6 point	2¾ dr.	1½ oz.	1190	362	3	B&P h.24	SBT 5	7550	Am. Trap-Sporting
OSPL128	Optima Trap/Sporting Lite 12 ga. #8	12/70/12	Black	star 6 point	2¾ dr.	1½ oz.	1190	362	3	B&P h.24	SBT 5	7550	Am. Trap-Sporting
OSPL1285	Optima Trap/Sporting Lite 12 ga. #8.5	12/70/12	Black	star 6 point	2¾ dr.	1½ oz.	1190	362	3	B&P h.24	SBT 5	7550	Am. Trap-Sporting
OSPL129	Optima Trap/Sporting Lite 12 ga. #9	12/70/12	Black	star 6 point	2¾ dr.	1½ oz.	1190	362	3	B&P h.24	SBT 5	7550	Am. Trap-Sporting

HIGH PERFORMANCE COMPETITION LOADS

Optima Super-Fast International - 12 Ga. High velocity characterizes this Optima International Trap and Skeet shotshell, thanks to its Max load of type SBT 6 propellant, coupled with 7/8 ounce of extra-hard, 5% antimony shot. A muzzle velocity of 1,345 ft/sec delivers target-smashing power even at the longer ranges. Its special B&P h.27 wad provides excellent protection for the shot, further assuring tight patterns. Like all other Optima shells, it features a strong, straight-wall hull with a 6 point star closure. Available in 7½, 8, 8½ and 9 shot sizes.

Optima Super-Fast - 12 Ga. Even faster, and with a heavier shot load than the International, this versatile Trap-Skeet-Sporting shell provides the power and accuracy for all types of competitive target shooting. It incorporates a Max charge of type SBT 5 propellant pushing one ounce of 5% antimony shot, enclosed in a B&P h.24 wad, to 1,355 ft/sec. Available in all four standard Optima shot sizes.

Optima Super-Fast Sporting - 12 Ga. This is the perfect choice for Sporting Clays. With 1½ ounces of extra-hard, 5% antimony shot in front of a Max charge of type SBT 1 propellant, you have all the power and velocity (1,340 ft/sec) you need to reach those long-range shots. The specially selected B&P h.21 wad pampers the shot, assuring that it stays round and flies true. Available in all four standard Optima shot sizes.

Optima Pigeon - 12 Ga. Designed for Pigeon-FITASC competition shooters, this special shell features the heaviest shot load of all Optima Target shotshells at a full 1¼ ounces of 4% antimony shot. The 3½ Dram Equivalent charge of type SBT 2 propellant delivers a muzzle velocity of 1,300 ft/sec. Slightly larger shot sizes at 7, 7½, 8 and 8½.

Optima Felt Wad - 12 Ga. For shooters who prefer a somewhat wider pattern, this Sporting-Spreader shell features a high quality Diana felt wad that gets the job done right. Selected especially for this shell, the 3 Dram Equivalent charge of type SBT 3 propellant provides a muzzle velocity of 1,240 ft/sec for the 1½ ounce load of 3% antimony shot. Available in three shot sizes – 7½, 8 and 9. Strong, reloadable plastic hull with 6 point star closure.

ITEM NO.	DESCRIPTION	SIZE	COLOR	CRIMP	DRAM equiv	SHOT weight	VEL. ft/sec	VEL. m/sec	ANTI-MONIUM %	WAD type	POWDER type	PSI	USE
OSFL1275	Optima Super Fast Int. 12 ga. #7.5	12/70/16	Black	star 6 point	max	7/8 oz.	1345	410	5	B&P h.27	SBT 6	7980	International Trap & Skeet
OSFL128	Optima Super Fast Int. 12 ga. #8	12/70/16	Black	star 6 point	max	7/8 oz.	1345	410	5	B&P h.27	SBT 6	7980	International Trap & Skeet
OSFL1285	Optima Super Fast Int. 12 ga. #8.5	12/70/16	Black	star 6 point	max	7/8 oz.	1345	410	5	B&P h.27	SBT 6	7980	International Trap & Skeet
OSFL129	Optima Super Fast Int. 12 ga. #9	12/70/16	Black	star 6 point	max	7/8 oz.	1345	410	5	B&P h.27	SBT 6	7980	International Trap & Skeet
OSF1275	Optima Super Fast 12 ga. #7.5	12/70/16	Black	star 6 point	max	1 oz.	1355	413	5	B&P h.24	SBT 5	9060	Trap-Skeet-Sporting
OSF128	Optima Super Fast 12 ga. #8	12/70/16	Black	star 6 point	max	1 oz.	1355	413	5	B&P h.24	SBT 5	9060	Trap-Skeet-Sporting
OSF1285	Optima Super Fast 12 ga. #8.5	12/70/16	Black	star 6 point	max	1 oz.	1355	413	5	B&P h.24	SBT 5	9060	Trap-Skeet-Sporting
OSF129	Optima Super Fast 12 ga. #9	12/70/16	Black	star 6 point	max	1 oz.	1355	413	5	B&P h.24	SBT 5	9060	Trap-Skeet-Sporting
OSFX1275	Optima Super Fast Sporting 12 ga. #7.5	12/70/16	Black	star 6 point	max	1½ oz.	1340	408	5	B&P h.21	SBT 1	9060	Sporting
OSFX128	Optima Super Fast Sporting 12 ga. #8	12/70/16	Black	star 6 point	max	1½ oz.	1340	408	5	B&P h.21	SBT 1	9060	Sporting
OSFX1285	Optima Super Fast Sporting 12 ga. #8.5	12/70/16	Black	star 6 point	max	1½ oz.	1340	408	5	B&P h.21	SBT 1	9060	Sporting
OSFX129	Optima Super Fast Sporting 12 ga. #9	12/70/16	Black	star 6 point	max	1½ oz.	1340	408	5	B&P h.21	SBT 1	9060	Sporting
OPIG127	Optima Pigeon 12 ga. #7	12/70/23	Black	star 6 point	3½ dr.	1¼ oz.	1300	395	4	B&P h.15	SBT 2	9420	Pigeon-FITASC-Electrocible
OPIG1275	Optima Pigeon 12 ga. #7.5	12/70/23	Black	star 6 point	3½ dr.	1¼ oz.	1300	395	4	B&P h.15	SBT 2	9420	Pigeon-FITASC-Electrocible
OPIG128	Optima Pigeon 12 ga. #8	12/70/23	Black	star 6 point	3½ dr.	1¼ oz.	1300	395	4	B&P h.15	SBT 2	9420	Pigeon-FITASC-Electrocible
OPIG1285	Optima Pigeon 12 ga. #8.5	12/70/23	Black	star 6 point	3½ dr.	1¼ oz.	1300	395	4	B&P h.15	SBT 2	9420	Pigeon-FITASC-Electrocible
OFW1275	Optima Felt Wad 12 ga. #7.5	12/70/12	Black	star 6 point	3 dr.	1½ oz.	1240	378	3	Diana	SBT 3	7600	Sporting-Spreader Load
OFW128	Optima Felt Wad 12 ga. #8	12/70/12	Black	star 6 point	3 dr.	1½ oz.	1240	378	3	Diana	SBT 3	7600	Sporting-Spreader Load
OFW129	Optima Felt Wad 12 ga. #9	12/70/12	Black	star 6 point	3 dr.	1½ oz.	1240	378	3	Diana	SBT 3	7600	Sporting-Spreader Load

OPTIMA BALLISTICS

TARGET & COMPETITION LOADS - SUB-GAUGE

Optima Trap & Skeet - 20 Ga. This all-purpose Sporting Clays, Trap and Skeet shell features the heaviest shot load we offer in Optima 20 gauge Target. Its 2½ Dr. Equiv. charge of type SBT 1 clean burning propellant pushes one ounce of 3% antimony shot out of the muzzle at 1,220 ft/sec, delivering target-dusting power clear to the back fence. The specially designed B&P h.19 plastic wad assures that the shot stays on target. Reloadable six point star closure. Available in 7½, 8 and 9 shot sizes.

Optima Trap & Skeet Lite - 20 Ga. Also designed for all-purpose target and competition shooting, this shell offers greater velocity and a slightly smaller shot load than the shell described above. Its 2½ Dr. Equiv. charge of type SBT 5 propellant delivers 1,250 ft/sec at the muzzle. Its 7/8 ounce load of 3% antimony shot is enclosed in a B&P h.22 wad. Available in four shot sizes: 7½, 8, 8½ and 9.

Optima Skeet - 28 Ga. This is the ultimate 28 gauge shell for Skeet/Sporting shooters. With a Max charge of type SBT 2 propellant and a ¾ ounce load of hardened, 3% antimony shot leaving the muzzle at 1,225 ft/sec, there is no better choice for competition Skeet or Sporting Clays shooters who love this little, pleasant-handling sub-gauge. The shot is fully protected by an E.G. h.28 plastic wad to keep the pattern tight, and the hull is closed with a six point star. Your choice of 7½, 8, 8½ or 9 shot sizes.

Optima Skeet - 410 bore This hard-shooting 410 bore shell gets its 1,225 ft/sec velocity from a Max charge of special type SBT 2P propellant. Loaded with a ½ ounce of hardened, 3% antimony shot and manufactured with specially designed Optima components like the E.G. h.27 wad, you won't find a harder hitting, better performing, 410 bore shotshell. Star crimp closure. Available in 7½, 8½ and 9 shot sizes.

ITEM NO.	DESCRIPTION	SIZE	COLOR	CRIMP	DRAM equiv.	SHOT weight	VEL. ft/sec	VEL. m/sec	ANTI-MONIUM %	WAD type	POWDER type	PSI	USE
OTS2075	Optima Trap & Skeet 20 ga. #7.5	20/70/16	Yellow	star 6 point	2½ dr.	1 oz.	1220	370	3	B&P h.19	SBT 1	9060	All Purpose Sporting-Trap
OTS208	Optima Trap & Skeet 20 ga. #8	20/70/16	Yellow	star 6 point	2½ dr.	1 oz.	1220	370	3	B&P h.19	SBT 1	9060	All Purpose Sporting-Trap
OTS209	Optima Trap & Skeet 20 ga. #9	20/70/16	Yellow	star 6 point	2½ dr.	1 oz.	1220	370	3	B&P h.19	SBT 1	9060	All Purpose Sporting-Trap
OTSL2075	Optima Trap & Skeet Lite 20 ga. #7.5	20/70/16	Yellow	star 6 point	2½ dr.	7/8 oz.	1250	380	3	B&P h.22	SBT 5	8700	All Purpose Sporting-Trap
OTSL208	Optima Trap & Skeet Lite 20 ga. #8	20/70/16	Yellow	star 6 point	2½ dr.	7/8 oz.	1250	380	3	B&P h.22	SBT 5	8700	All Purpose Sporting-Trap
OTSL2085	Optima Trap & Skeet Lite 20 ga. #8.5	20/70/16	Yellow	star 6 point	2½ dr.	7/8 oz.	1250	380	3	B&P h.22	SBT 5	8700	All Purpose Sporting-Trap
OTSL209	Optima Trap & Skeet Lite 20 ga. #9	20/70/16	Yellow	star 6 point	2½ dr.	7/8 oz.	1250	380	3	B&P h.22	SBT 5	8700	All Purpose Sporting-Trap
OSK2875	Optima Skeet 28 ga. #7.5	28/70/08	Red	star 6 point	max	¾ oz.	1225	375	3	E.G. h.28	SBT 2	10100	Sporting-Skeet
OSK288	Optima Skeet 28 ga. #8	28/70/08	Red	star 6 point	max	¾ oz.	1225	375	3	E.G. h.28	SBT 2	10100	Sporting-Skeet
OSK2885	Optima Skeet 28 ga. #8.5	28/70/08	Red	star 6 point	max	¾ oz.	1225	375	3	E.G. h.28	SBT 2	10100	Sporting-Skeet
OSK289	Optima Skeet 28 ga. #9	28/70/08	Red	star 6 point	max	¾ oz.	1225	375	3	E.G. h.28	SBT 2	10100	Sporting-Skeet
OSK4175	Optima Skeet 410 bore #7.5	36/65/08	Red	star crimp	max	½ oz.	1225	375	3	E.G. h.27	SBT 2P	10800	Skeet
OSK4185	Optima Skeet 410 bore #8.5	36/65/08	Red	star crimp	max	½ oz.	1225	375	3	E.G. h.27	SBT 2P	10800	Skeet
OSK419	Optima Skeet 410 bore #9	36/65/08	Red	star crimp	max	½ oz.	1225	375	3	E.G. h.27	SBT 2P	10800	Skeet

PAPER COMPETITION SHOTSHELLS

Optima Paper Shotshells- 12 Ga. State-of-the-art shock absorbing, prefabricated plastic wad filled with 5% antimony lead shot (1 or 1 1/8 oz.) on top of 3 dram equiv. of ultra progressive single base Italian powder all in a traditional 12 gauge paper hull. Optima Paper shotshells fly through the targets at 1,220 fps and are available in a regular 1 1/8 oz. load (OPCH) and in a lighter 1 oz. load (OPC) in 7½, 8, 8½ and 9 shot sizes.

ITEM NO.	DESCRIPTION	SIZE	COLOR	CRIMP	DRAM equiv.	SHOT weight	VEL. ft/sec	VEL. m/sec	ANTI-MONIUM %	WAD type	POWDER type	PSI	USE
OPC1275	Optima Competition Paper 12 ga. #7.5	12/70/08	Black	star 6 point	3 dr.	1 oz.	1220	372	5	Drago 24	AS 28	8350	Trap-Skeet-Sporting
OPC128	Optima Competition Paper 12 ga. #8	12/70/08	Black	star 6 point	3 dr.	1 oz.	1220	372	5	Drago 24	AS 28	8350	Trap-Skeet-Sporting
OPC1285	Optima Competition Paper 12 ga. #8.5	12/70/08	Black	star 6 point	3 dr.	1 oz.	1220	372	5	Drago 24	AS 28	8350	Trap-Skeet-Sporting
OPC129	Optima Competition Paper 12 ga. #9	12/70/08	Black	star 6 point	3 dr.	1 oz.	1220	372	5	Drago 24	AS 28	8350	Trap-Skeet-Sporting
OPCH1275	Optima Competition Paper 12 ga. #7.5	12/70/08	Black	star 6 point	3 dr.	1 1/8 oz.	1225	374	5	Drago 22	C7	8375	Trap-Skeet-Sporting
OPCH128	Optima Competition Paper 12 ga. #8	12/70/08	Black	star 6 point	3 dr.	1 1/8 oz.	1225	374	5	Drago 22	C7	8375	Trap-Skeet-Sporting
OPCH1285	Optima Competition Paper 12 ga. #8.5	12/70/08	Black	star 6 point	3 dr.	1 1/8 oz.	1225	374	5	Drago 22	C7	8375	Trap-Skeet-Sporting
OPCH129	Optima Competition Paper 12 ga. #9	12/70/08	Black	star 6 point	3 dr.	1 1/8 oz.	1225	374	5	Drago 22	C7	8375	Trap-Skeet-Sporting



PMC GREEN



PMC GREEN™ Truly Non-Toxic Ammunition

That's right, TRULY NON-TOXIC, manufactured with non-toxic primers, powder and frangible, lead-free bullets! We hope you'll pardon our enthusiasm, but this superb product offers so many benefits and advantages to everyone involved in shooting, whether training, duty or recreation, it's hard to know where to begin.

Non-toxic benefits

The reduced hazard primers used in PMC Green cartridges are not just lead free, they contain no heavy metals whatsoever – no lead, mercury, halogens, boron, barium, bismuth or strontium. That means they exceed current EPA standards! No lead is contained in PMC Green frangible bullets, which eliminates another toxin source. Spectrographic analysis of the residue from the primers shows that the only residual is a small trace of potash, which is completely harmless and will, in fact, actually act as a fertilizer on outdoor ranges. Trainers, trainees, range operators and employees, and recreational shooters no longer need to be exposed to the toxins contained in standard ammunition. Wildlife and the environment will also benefit because of reduced pollution.

Primer sensitivity and reliability

PMC non-toxic primers have been thoroughly tested by an independent laboratory (HP White Laboratories) and shown to have exceptional sensitivity and uniformity of ignition. Accelerated environmental testing has shown a shelf life of at least 25 years, surpassing other so-called non-toxic primers by a decade. Extensive testing and actual experience have clearly shown that PMC Green primers exhibit a degree of uniformity and sensitivity equal to the best standard non-corrosive primers.

No special handling or storage

Temperature range should not exceed +175 degrees F. to -120 degrees F., which means these primers meet or exceed SAAMI specifications for lead based primers! Further, they are non-hygroscopic (water resistant). Another testing agency soaked our primers in a bucket of water for 24 hours, let them dry for 1 hour, then loaded and fired them without a single failure. In other words, they will easily withstand the adverse temperature and humidity problems that have plagued other non-toxic primers. Reloaders will be pleased to learn that, unlike some competitive products, these primers will work with a standard flash hole and DO NOT have to be crimped into the case.

No firearm damage

PMC Green bullets and primers contain no harmful materials such as aluminum, iron, boric acid or ground glass that are found in some lead-free formulas. Therefore we can safely say that no barrel damage, scorching or erosion will occur.

The bullets

Composed of 93% copper and 7% polymer, PMC Green bullets are completely frangible, designed to disintegrate into a burst of dust upon impact with any material harder than themselves. They contain no materials, such as titanium or iron, that can prematurely wear out expensive barrels. They were specifically designed by John Mullins, CEO of Longbow, to fill the need for CQB training without risking the



health and welfare of the trainee, trainer or bystanders. Mullins has personally demonstrated this product by firing it into a steel plate from a distance of three inches! They are perfect for use in training, and also in special environments where ricochets and over penetration are not acceptable. Examples are nuclear facilities, schools, shipboard or commercial aircraft applications, etc. You can go to our web site at pmcgreen.com and see videos of John Mullins and others performing these close range tests.

RIFLE



FULL METAL JACKET BULLET (FMJ)

The lead core of this bullet is enclosed in a heavy copper jacket, which results in little or no expansion and deep penetration. Not recommended for hunting, the primary use of the FMJ is target shooting.

FULL METAL JACKET BOAT TAIL BULLET (FMJ-BT)

Designed primarily for target shooting applications, this bullet offers excellent ballistic performance and superior down-range accuracy due to its rear-taper, boat tail construction. Its solid lead core is fully enclosed by a full metal jacket.

FLAT NOSE SOFT POINT BULLET (FNPS)

Similar to the Soft Point in construction and performance, but with a flat nose that allows this bullet to be used safely in tubular magazines. Designed primarily for use in the 30-30 carbine, it delivers reliable expansion at typical 30-30 velocities.

SIERRA HOLLOW POINT BOAT TAIL BULLET (HPBT)

Extremely accurate hollow point bullet with pointed, aerodynamic design. Boat tail heel further reduced drag to improve downrange velocity. Precision balance and exceptional concentricity greatly increase bullet stability to assure superb accuracy.

NON-TOXIC FRANGIBLE BULLET (NT/FR)

The PMC Green non-toxic, lead-free, frangible bullet is formed from a composite of fine copper and polymer particles by injection molding. Designed to shatter into dust-sized particles upon impact with materials harder than itself, it is much less likely to ricochet or over penetrate. Its homogeneous construction means there is no jacket or plating to impede disintegration. Excellent for use in special duty applications, and can be used at ranges previously restricted to pistol use. Superior accuracy.

POINTED SOFT POINT BULLET (PSP)

Popular, time-tested bullet featuring a soft lead point extending beyond the copper jacket that initiates bullet expansion upon impact. Pointed design reduced aerodynamic drag, improves ballistic coefficient rating and helps this bullet retain its velocity downrange.

30-30 STARFIRE BULLET (SFHP)

Solid copper construction with patented rib and flute Starfire hollow cavity in the nose mushrooms consistently over a wide range of velocities, and penetrates deeper than lead-core bullets. The broad hollow point allows this bullet to be used in tubular magazines.

SOFT POINT BULLET (SP)

Exposed lead tip in this bullet and broader point diameter provide rapid, controlled expansion at somewhat lower velocities than the PSP. Broad wound channel results in expansion up to 200% of the original bullet diameter.

SIERRA SOFT POINT BOAT TAIL BULLET (SPBT)

This bullet combines the aerodynamic pointed nose with a boat tail heel for improved flight characteristics and retained velocity downrange. Typical of Sierra construction, it embodies near-perfect balance and concentricity. Exposed tip for controlled expansion.

RIFLE PRODUCTS



PMC SILVER LINE

The PMC Silver Line incorporates the use of high quality bullets from Sierra and Hornady. The Sierra name has been synonymous with championship accuracy for five decades. Hornady continues to have a long-standing reputation for classic hunting bullet performance. Combining the excellence of Sierra and Hornady with PMC's precision drawn cases, the PMC Silver Line offers a level of accuracy and performance that handloaders will be hard-pressed to equal. Available in popular rifle calibers from .223 Rem to .375 H&H Magnum. This line also includes specialty hunting loads in 45-70 Gov't and 45 Long Colt.

PMC BRONZE LINE

For shooters and hunters who appreciate affordable quality ammunition, the PMC Bronze Line offers reliable performance for every shooting application, from target shooting to hunting. This long-popular ammunition line makes it possible for hunters and riflemen to enjoy high volume shooting without emptying their wallets. Bronze Line ammunition is available in several bullet types, in 19 calibers ranging from .222 Rem to .300 Win. Mag.



RIFLE BALLISTICS

CALIBER	ITEM NO.	BULLET TYPE	WEIGHT (Grains)	VELOCITY (feet/second)						ENERGY (foot/pounds)						BULLET PATH (inches)					
				MUZZLE	100 Yds	200 Yds	300 Yds	400 Yds	500 Yds	MUZZLE	100 Yds	200 Yds	300 Yds	400 Yds	500 Yds	MUZZLE	100 Yds	300 Yds	300 Yds	400 Yds	500 Yds
NON-TOXIC/FRANGIBLE RIFLE AMMUNITION																					
223 Rem	223HRA	NT/FR	40	3500	2606	1871	1315	-	-	1088	603	311	154	-	-	-0.13	+2.60	0.00	-12.81	-	-
308 Win	308HRA	NT/FR	120	2600	1866	1312	1020	-	-	1801	958	459	277	-	-	-0.13	+5.14	0.0	-25.67	-	-
30-06 Rem (New)	3006HRA	NT/FR	100																		
7.62 x 39 Russian	7.62RHRA	NT/FR	100	2300	1910	1572	1298	-	-	1175	810	549	374	-	-	-1.50	+4.07	0.00	-18.30	-	-

GOLD LINE RIFLE HUNTING AMMUNITION				50 Yds	100 Yds	150 Yds	200 Yds		MUZZLE	50 Yds	100 Yds	150 Yds	200 Yds	-	MUZZLE	50 Yds	100 Yds	150 Yds	200 Yds	-	
30-30 Win	3030SFA	SFHP	150	2100	1930	1769	1618	1478	-	1469	1240	1042	871	728	-	-0.50	+0.92	0.00	-3.67	-10.75	-

SILVER LINE RIFLE HUNTING AMMUNITION																					
22-250 Rem	22-250VB	HPBT Game	55	3680	3104	2596	2141	1737	1395	1654	1176	823	560	368	238	-1.50	+1.08	0.00	-6.30	-20.20	-45.76
223 Rem	223SMB	HPBT Match	69	2900	2591	2304	2038	1791	1572	1288	1029	813	636	492	379	-1.50	+1.85	0.00	-8.43	-25.28	-52.82
223 Rem	223VB	HPBT Game	55	3240	2717	2250	1832	1473	1196	1282	901	618	410	265	175	-1.50	+1.65	0.00	-8.61	-27.67	-62.20
243 Win	243VA	HPBT Game	85	3275	2922	2596	2292	2009	1748	2024	1611	1272	991	761	577	-1.50	+1.31	0.00	-6.51	-19.66	-41.41
243 Win	243HB	SPBT Game	100	2960	2742	2534	2335	2144	1964	1945	1669	1425	1210	1021	856	-1.50	+1.61	0.00	-7.03	-20.46	-41.42
25-06 Rem (New)	2506VA	SPBT Game	100	3200	2925	2650	2395	2145	1910	2273	1895	1561	1268	1019	811	-1.50	+1.30	0.00	-6.27	-18.62	-38.44
6.5 x 55 Swedish	6.5HB	SPBT Game	140	2560	2386	2218	2057	1903	1757	2037	1769	1529	1315	1126	960	-1.50	+2.31	0.00	-9.42	-27.09	-54.25
270 Win	270HA	SPBT Game	130	3050	2830	2620	2421	2229	2047	2685	2312	1982	1691	1435	1209	-1.50	+1.46	0.00	-6.54	-19.02	-38.52
270 Win	270HB	SPBT Game	150	2850	2660	2477	2302	2134	1973	2705	2355	2043	1765	1516	1296	-1.50	+1.74	0.00	-7.40	-21.41	-43.02
7mm Rem Mag	7HA	SPBT Game	140	3125	2891	2669	2457	2255	2063	3035	2597	2213	1877	1580	1322	-1.50	+1.35	0.00	-6.29	-18.35	-37.23
7mm Rem Mag	7HB	SPBT Game	160	2900	2696	2501	2314	2135	1965	2987	2582	2222	1903	1620	1371	-1.50	+1.68	0.00	-7.22	-20.98	-42.33
303 British	303HB	SPBT Game	180	2450	2276	2110	1951	1799	1656	2399	2071	1779	1521	1294	1096	-1.50	+2.61	0.00	-10.44	-30.14	-60.15
308 Win	308HA	SPBT Game	150	2820	2581	2354	2139	1935	1744	2648	2218	1846	1523	1247	1013	-1.50	+1.89	0.00	-8.18	-23.96	-49.00
308 Win	308HC	SPBT Game	180	2620	2446	2278	2117	1962	1815	2743	2391	2074	1790	1538	1316	-1.50	+2.17	0.00	-8.89	-25.54	-51.32
30-06 Sprg	3006HA	SPBT Game	150	2900	2657	2427	2208	2000	1805	2801	2351	1961	1623	1332	1085	-1.50	+1.74	0.00	-7.66	-22.51	-46.04
30-06 Sprg	3006HC	SPBT Game	180	2700	2523	2352	2188	2030	1879	2913	2543	2210	1913	1646	1411	-1.50	+2.00	0.00	-8.28	-23.89	-47.94
300 Win Mag	300HA	SPBT Game	150	3250	2987	2739	2504	2281	2070	3517	2970	2498	2088	1733	1426	-1.50	+1.20	0.00	-5.96	-17.41	-35.55
300 Win Mag	300HC	SPBT Game	180	2900	2714	2536	2365	2200	2042	3361	2944	2571	2235	1935	1666	-1.50	+1.65	0.00	-7.08	-20.34	-40.85
375 H&H Mag	375HA	PSP	270	2650	2414	2192	1984	1788	1610	4210	3495	2882	2359	1917	1554	-1.50	+2.24	0.00	-9.50	-27.85	-58.97
45-70 Gov't +P+	45-70HA	FNPS	350	2025	1678	1390	-	-	-	3167	2187	1502	-	-	-	-0.50	0.00	-11.99	-	-	-

SILVER LINE RIFLE MATCH AMMUNITION																					
22-250 Rem	22-250BKA	BlitzKing	50	3725	3264	2641	2455	2103	1785	1540	1183	896	669	491	354	-1.50	+0.89	0.00	-5.23	-16.28	-35.24
223 Rem	223BKA	BlitzKing	50	3300	2874	2484	2130	1809	1530	1209	917	685	504	363	260	-1.50	+1.37	0.00	-7.05	-21.83	-47.04
223 Rem	223SMA	HPBT Match	52	3200	2808	2447	2117	1817	1553	1182	910	691	517	381	278	-1.50	+1.47	0.00	-7.32	-22.45	-47.94
300 Win Mag (New)	300SMA	HPBT Match	180	2950	2755	2568	2390	2219	2057	3478	3033	2636	2283	1968	1691	-1.50	+1.54	0.00	-6.82	-19.74	-39.72
303 British	303SMA	HPBT Match	175	2425	2254	2091	1936	1788	1651	2272	1963	1690	1448	1235	1053	-1.50	+2.68	0.00	-10.64	-30.56	-61.29
30-06 Sprg (New)	3006SMB	HPBT Match	180	2800	2622	2456	2302	2158	2024	3133	2747	2411	2118	1861	1638	-1.50	+1.78	0.00	-7.55	-21.68	-43.30
308 Win	308SMB	HPBT Match	168	2650	2460	2278	2103	1936	1776	2619	2257	1935	1649	1399	1179	-1.50	+2.14	0.00	-8.85	-25.59	-51.64
6.5 x 55 Swedish	6.5SMA	HPBT Match	140	2560	2398	2243	2093	1949	1811	2037	1788	1563	1361	1181	1020	-1.50	+2.29	0.00	-9.19	-26.35	-52.74

BlitzKing
Sierra Full Metal Jacket Boat Tail

FNPS
Flat Nose Soft Point

HPBT
Hollow Point Boat Tail

NT/FR
Non-Toxic Frangible

PSP
Pointed Soft Point

SPBT
Soft Point Boat Tail

***WARNING:** 45-70HA ammunition is loaded to higher pressure and is, therefore, not intended for use in firearms of weaker receiver/frame strength such as the Trapdoor Springfield rifle. Please ask the firearms manufacturer for compatibility and use.

This ballistics table was calculated by using current data for each load. Velocity figures are from test barrels; user velocities may vary from loads listed. The data in the table represents the approximate behavior of each

RIFLE BALLISTICS



CALIBER	ITEM NO.	BULLET TYPE	WEIGHT (Grains)	VELOCITY (feet/second)						ENERGY (foot/pounds)						BULLET PATH (inches)					
				MUZZLE	100 Yds	200 Yds	300 Yds	400 Yds	500 Yds	MUZZLE	100 Yds	200 Yds	300 Yds	400 Yds	500 Yds	MUZZLE	100 Yds	200 Yds	300 Yds	400 Yds	500 Yds
BRONZE LINE RIFLE SOFT POINT AMMUNITION																					
22-250 Rem	22-250B	PSP	55	3580	3129	2716	2339	1996	1689	1565	1196	901	668	487	348	-1.50	+1.04	0.00	-5.79	-17.98	-38.83
222 Rem	222B	PSP	50	3050	2617	2226	1873	1565	1312	1033	761	550	389	272	191	-1.50	+1.81	0.00	-8.90	-27.67	-60.74
222 Rem	222C	PSP	55	2950	2594	2266	1966	1693	1459	1063	822	627	472	350	260	-1.50	+1.85	0.00	-8.67	-26.32	-56.06
223 Rem	223B	PSP	55	3100	2689	2314	1974	1670	1414	1174	883	654	476	341	244	-1.50	+1.67	0.00	-8.22	-25.34	-54.91
223 Rem	223C	PSP	64	2800	2503	2241	2009	1803	1619	1114	891	714	573	462	373	-1.50	+2.03	0.00	-8.99	-26.69	-55.28
243 Win	243A	PSP	80	3200	2885	2590	2315	2059	1822	1819	1478	1192	952	753	590	-1.50	+1.35	0.00	-6.55	-19.62	-40.92
243 Win	243B	PSP	100	2800	2566	2354	2161	1985	1825	1741	1462	1230	1037	875	739	-1.50	+1.89	0.00	-8.19	-23.85	-48.43
25-06 Rem	25-06B	PSP	117	2950	2706	2472	2253	2047	1852	2261	1900	1588	1319	1088	891	-1.50	+1.63	0.00	-7.34	-21.54	-44.07
6.5 x 55 Swedish	65MB	PSP	130	2550	2548	2156	1975	1803	1645	2007	1701	1435	1204	1004	835	-1.50	+2.41	0.00	-9.90	-28.74	-58.18
270 Win	270A	PSP	130	2950	2691	2447	2217	2001	1799	2512	2090	1728	1419	1156	935	-1.50	+1.66	0.00	-7.48	-22.06	-45.35
270 Win	270B	PSP	150	2750	2530	2321	2123	1936	1760	2519	2131	1794	1501	1248	1032	-1.50	+1.97	0.00	-8.44	-24.62	-50.05
7mm-08 Rem	7MM-08A	PSP	140	2850	2610	2384	2170	1969	1780	2507	2103	1754	1454	1197	978	-1.50	+1.81	0.00	-7.94	-23.28	-47.59
7 x 57 Mauser	7MA	PSP	140	2600	2365	2145	1937	1744	1569	2101	1739	1430	1167	945	765	-1.50	+2.37	0.00	-9.95	-29.16	-59.75
7 x 57 Mauser	7MB	SP	175	2400	2183	1979	1788	1613	1457	2238	1852	1522	1242	1011	825	-1.50	+2.91	0.00	-11.81	-34.46	-70.52
7mm Rem Mag	7A	PSP	140	3100	2637	2589	2325	2135	1929	2987	2503	2084	1725	1417	1156	-1.50	+1.41	0.00	-6.61	-19.51	-40.06
7mm Rem Mag	7B	PSP	160	2900	2671	2455	2249	2055	1871	2988	2535	2140	1797	1500	1244	-1.50	+1.69	0.00	-7.47	-21.64	-44.46
7mm Rem Mag	7C	PSP	175	2860	2645	2442	2244	2057	1879	3178	2718	2313	1956	1644	1372	-1.50	+2.00	0.00	-7.90	-22.70	-45.80
7 x 64 Brenneke	7x64B	SP	170	2625	2401	2189	1989	1801	1629	2601	2175	1808	1493	1224	1001	-1.50	+2.27	0.00	-9.55	-27.92	-56.90
30 Carbine	30B	RNSP	110	1930	1485	1141	-	-	-	910	524	318	-	-	-	-0.50	-2.59	-21.28	-	-	-
30-30 Win	3030A	FNSP	150	2300	1943	1627	-	-	-	1762	1257	881	-	-	-	-1.50	0.00	-7.80	-	-	-
30-30 Win	3030B	FNSP	170	2150	1840	1566	-	-	-	1745	1277	926	-	-	-	-1.50	0.00	-8.86	-	-	-
308 Win	308A	PSP	150	2750	2478	2224	1987	1766	1569	2519	2045	1647	1315	1039	820	-1.50	+2.09	0.00	-9.15	-27.12	-56.14
308 Win	308C	PSP	180	2550	2335	2132	1940	1760	1596	2599	2179	1816	1504	1238	1017	-1.50	+2.45	0.00	-10.12	-29.48	-60.00
308 Win (New)	308E	PSP	168	2600	2404	2216	2037	1866	1706	2476	2064	1709	1403	1142	926	-1.50	+2.30	0.00	-9.80	-28.70	-58.90
30-06 Sprg	3006A	PSP	150	2770	2497	2241	2003	1781	1582	2555	2076	1673	1336	1057	834	-1.50	+2.05	0.00	-9.00	-26.68	-55.22
30-06 Sprg	3006B	PSP	180	2650	2430	2221	2024	1839	1667	2807	2359	1972	1638	1351	1110	-1.50	+2.20	0.00	-9.27	-27.04	-55.01
300 Win Mag	300A	PSP	150	3150	2902	2665	2438	2222	2017	3304	2804	2364	1979	1644	1355	-1.50	+1.31	0.00	-6.21	-18.26	-37.36
300 Win Mag	300B	PSP	180	2850	2619	2400	2193	1998	1814	3246	2742	2303	1923	1596	1315	-1.50	+1.79	0.00	-7.84	-22.92	-46.74
303 British	303B	PSP	180	2450	2276	2110	1951	1799	1656	2399	2071	1779	1521	1294	1096	-1.05	+2.61	0.00	-10.44	-30.14	-60.15
7.62 x 39	7.62B	PSP	125	2320	2046	1794	1563	1350	1156	1493	1161	893	678	505	371	+0.70	0.00	-5.20	-27.50	-70.60	-140.00
8 x 57 (8mm) Mauser	8MA	PSP	170	2250	2013	1793	1594	1419	1265	1911	1530	1213	959	760	604	-1.50	+3.56	0.00	-14.40	-42.54	-88.06

FMJ
Full Metal Jacket

FMJ-BT
Full Metal Jacket
Boat Tail

FNSP
Flat Nose Soft Point

PSP
Pointed Soft Point

SP
Soft Point

BRONZE LINE RIFLE FMJ AMMUNITION																					
223 Rem	223A	FMJ-BT	55	3200	2833	2493	2180	1893	1635	1250	980	759	580	438	326	-1.50	+1.43	0.00	-7.06	-21.48	-45.47
6.5 x 55 Swedish	6.5MA	FMJ	144	2550	2377	2212	2055	1904	1761	2079	1807	1565	1350	1160	992	-1.50	+2.33	0.00	-9.44	-27.13	-54.39
30 Carbine	30A	FMJ	110	1930	1485	1141	-	-	-	910	524	318	-	-	-	-0.50	-2.59	-21.28	-	-	-
303 British	303A	FMJ	174	2400	2216	2042	1876	1720	1578	2225	1898	1611	1360	1143	962	-1.50	+2.80	0.00	-11.15	-32.16	-64.91
308 Win (7.62 NATO)	308B	FMJ-BT	147	2780	2575	2380	2194	2018	1851	2522	2164	1848	1571	1329	1118	-1.50	+1.88	0.00	-8.03	-23.29	-47.11
308 Win (Target)	308D	FMJ-SP	168	2559	2354	2160	1976	1803	1642	2443	2067	1740	1457	1212	1006	-1.50	+2.39	0.00	-9.86	-28.65	-58.04
30-06 Sprg (30M2)	3006C	FMJ	150	2772	2543	2326	2121	1928	1747	2508	2111	1766	1469	1214	997	-1.50	+1.94	0.00	-8.39	-24.52	-49.96
7.62 x 39	7.62A	FMJ	123	2350	2072	1817	1583	1368	1171	1495	1162	894	678	507	371	+0.60	0.00	0.50	-26.40	-67.80	-135.00

This ballistics table was calculated by using current data for each load. Velocity figures are from test barrels; user velocities may vary from loads listed. The data in the table represents the approximate behavior of each loading under the following conditions: 59°F, barometric pressure of 29.52 inches, sea level altitude.

HANDGUN



FULL METAL JACKET (FMJ)

Lead core is enclosed by a strong metal jacket on this non-expanding, deep penetrating bullet. Provides smooth, reliable feeding in all types of semi-auto handguns

FULL METAL JACKET FLAT POINT (FMJ-FP)

Non-expanding and deep penetrating, this general purpose bullet is a good choice for target use because of its accuracy. Its lead core is enclosed by a metal jacket, which eliminates barrel leading. Provides smooth, reliable feeding in semi-automatic handguns.

FULL METAL JACKET SEMI-WADCUTTER (FMJ-SWC)

Designed primarily for target and competition shooting, this bullet exhibits superior accuracy. Its swaged lead core is enclosed by a heavy metal jacket, eliminating barrel leading

FULL METAL JACKET TRUNCATED CONE (FMJ-TC)

The truncated cone shape of this bullet makes feeding smooth and reliable in semi-autos. Cannot lead barrels because its lead core is enclosed by a heavy metal jacket.

JACKETED HOLLOW POINT (JHP)

The exposed lead at the tip of the PMC jacketed hollow point rapidly initiates uniform, controlled expansion that progresses to the depth of the hollow point cavity. Penetration is also controlled for maximum energy transfer to the target, assuring its suitability as a hunting bullet. Excellent accuracy and bullet integrity.

JACKETED SOFT POINT (JSP)

Exposed lead soft point initiates reliable expansion, provides deeper penetration than hollow point bullets. Precisely engineered copper jacket and swaged lead core provide the necessary concentricity and balance required for top-level accuracy.

LEAD ROUND NOSE (LRN)

Solid lead lubricated bullet with rounded ogive for down range accuracy. Hard-hitting, economical general purpose bullet for all revolvers.

LEAD SEMI-WADCUTTER (LSWC)

Lead, lubricated bullet with semi-pointed nose. Formed by swaging process with sharp shoulder for clean punching in paper targets. Good choice for target or general purpose shooting.

LEAD WADCUTTER (LWC)

The full wadcutter profile of this solid lead lubricated bullet cuts a clean signature in paper targets for precise scoring. Consistent accuracy results from formation by swaging process, which eliminates balance-destroying voids often found in cast bullets. Excellent for competitive shooting.

NON-TOXIC FRANGIBLE (NT/FR)

Formed from a composite of fine copper and polymer particles by injection molding, the PMC Green frangible bullet is lead-free and completely non-toxic. Designed to shatter into dust-size particles upon impact with materials harder than itself, it is much less likely to ricochet or over penetrate. Its homogenous construction means there is no jacket or plating to impede disintegration. Feeding is smooth and accuracy is excellent.

STARFIRE HOLLOW POINT (SFHP)

The Starfire hollow point's impressive performance comes from its unique rib and flute hollow point cavity design. Upon impact, pressure from incoming fluidic material creates lateral pressure on the ribs, forcing instant, extremely reliable expansion, assisted by a notched jacket mouth. Ogives are computer engineered to assure that feeding in semi-auto weapons is smooth and positive.

TRUNCATED SOFT POINT (TC-SP)

An excellent choice for hunting and general shooting, the soft point of this bullet initiates uniform, controlled expansion. Characterized by very reliable functioning in semi-auto and excellent accuracy.

HANDGUN STARFIRE

GOLD LINE - STARFIRE

For well over a decade, Starfire high performance cartridges have been chosen by thousands of consumers as their chief means of home and personal defense. The Starfire bullet, brainchild of Tom Burczynski – the “dean” of high performance handgun bullet designers – was a forerunner in the new era of advanced bullet design, and its still going strong today.

The secret of Starfire’s impressive performance lies in a unique, patented rib-and-flute hollow point cavity design that is like no other. Upon impact, the pre-notched jacket mouth begins to peel back, separating into six uniform copper petals and allowing expansion to begin. Pressure from incoming material creates lateral pressure on the ribs in the cavity wall, forcing them apart and allowing nearly instantaneous expansion of the lead core to the depth of the deep hollow point cavity. The sharp ribs are then exposed and form the leading edge of the expanded bullet, helping it cut its way through. The result is broad temporary and permanent wound cavities and impressive stopping power.

While the bullet design and nickel plated cases of all Starfire cartridges facilitate smooth and reliable feeding in semi-automatic handguns, the bullet ogive and propellant impulse of the 9mm Starfire have been specifically engineered to provide trouble-free, completely reliable feeding in fully automatic weapons. This enables the use of high performance hollow point cartridges that feed just as dependably as ball ammunition when the full auto setting is necessary.

THE ULTIMATE IN CONTROLLED EXPANSION



Starfire bullet integrity is excellent, averaging 98% weight retention in 10% ballistic gelatin.



HANDGUN BRONZE LINE

The same quality and dependability built into our Starfire ammunition is incorporated throughout our extensive line of PMC training ammunition and standard hollow point or soft point ammunition. All PMC plate loaded cartridges, which include 40 S&W, 9mm Luger, 45 Auto, 10mm Auto and 357 Sig, must pass through the rigorous inspection of our electronic powder check station. This station accurately measures the propellant charge in each of the more than 200 cartridges held by each plate. If the propellant in any cartridge varies by a tiny amount – just two tenths of one grain – the system stops and that cartridge is discarded. No other ammunition manufacturer can truthfully assure you greater uniformity and reliability than PMC!



BRONZE LINE

Our most reasonably priced handgun ammunition, PMC Bronze offers more than 40 different caliber/bullet combinations – one of the largest selections in the industry and growing larger each year. PMC Bronze Line ammunition brings to our customers a tradition of accurate, high quality ammo at a price everyone can afford.

HANDGUN

CALIBER	ITEM NO.	BULLET TYPE	WEIGHT (Grains)	ENERGY (ft. lbs.)	VELOCITY (feet/second)					BULLET PATH (inches)			
					MUZZLE	25 Yds	50 Yds	75 Yds	100 Yds	25 Yds	50 Yds	75 Yds	100 Yds
NON-TOXIC/FRANGIBLE PISTOL AMMUNITION													
380 Auto (New)	380HRA	NT/FR	77	223	1200	1095	1012	932	874	+0.78	0.00	-3.87	-8.78
9mm Luger	9HRA	NT/FR	77	303	1350	1240	1154	1088	1035	+0.66	0.00	-2.22	-6.28
10mm Auto	10HRA	NT/FR	115	465	1350	1240	1154	1088	1035	+0.64	0.00	-2.27	-6.36
38 Special	38HRA	NT/FR	90	307	1275	1181	1109	1052	1006	+0.72	0.00	-2.47	-6.89
357 Magnum	357MHRA	NT/FR	90	331	1325	1219	1139	1076	1025	+0.53	0.00	-1.93	-6.59
357 SIG	357SHRA	NT/FR	90	413	1480	1356	1245	1158	1092	+0.53	0.00	-1.93	-5.48
40 S&W	40HRA	NT/FR	115	465	1350	1240	1154	1088	1035	+0.64	0.00	-2.27	-6.36
45 ACP	45HRA	NT/FR	150	390	1100	1045	999	961	928	+0.93	0.00	-3.10	-8.55

GOLD LINE PREMIUM PISTOL & REVOLVER STARFIRE AMMUNITION													
32 Auto (New)	32SFA	SFHP	70								0.00		
380 Auto	380SFA	SFHP	95	180	925	884	847	813	783	+1.14	0.00	-4.12	-11.49
9mm Luger	9SFL	SFHP	95	330	1250	1239	1228	1217	1207	+0.46	0.00	-1.90	-5.26
9mm Luger	9SFB	SFHP	124	327	1090	1043	1003	969	939	+0.75	0.00	-2.89	-8.03
9mm Luger (New)	9SFF	SFHP	147								0.00		
38 Special +P	38SFA	SFHP	125	251	950	918	889	863	838	+1.06	0.00	-3.77	-10.45
38 Special +P (New)	38SFB	SFHP	110								0.00		
357 Magnum	357SFA	SFHP	150	480	1200	1131	1076	1031	992	+0.60	0.00	-2.47	-6.97
357 SIG	357SIG-SFB	SFHP	125	502	1350	1263	1190	1132	1083	+0.43	0.00	-1.96	-5.62
10mm Auto	10SFA	SFHP	180	361	950	926	903	882	862	+1.04	0.00	-3.70	-10.16
40 S&W	40SFA	SFHP	180	388	985	958	933	910	889	+0.93	0.00	-3.45	-9.58
40 S&W	40SFB	SFHP	155	463	1160	1092	1039	994	957	+0.65	0.00	-2.66	-7.47
44 Rem Mag	44SFA	SFHP	240	900	1300	1212	1138	1079	1030	+0.49	0.00	-2.13	-6.08
45 Auto	45SFA	SFHP	230	369	850	830	811	792	775	+1.32	0.00	-4.63	-12.67

SILVER LINE PISTOL & REVOLVER AMMUNITION													
45 Colt +P+	45HA*	JSP	300	1041	1250	1192	1144	1102	1066	+0.51	0.00	-2.17	-6.13

***WARNING:** 45HA ammunition is loaded to higher pressure and is, therefore, not intended for use in firearms of weaker receiver/frame strength such as the Colt single Action Army revolver. Please ask the firearms manufacturer for compatibility and use.

- FMJ**
Full Metal Jacket
- FN**
Flat Nose
- FP**
Flat Point
- GCK**
Gas Check
- JHP**
Jacketed Hollow Point
- JSP**
Jacketed Soft Point
- LFP**
Lead Flat Point
- LRN**
Lead Round Nose
- LSWC**
Lead Semi Wadcut-ter
- LWC**
Lead Wad Cutter
- NTF**
Non-Toxic Frangible
- SFHP**
Starfire Hollow Point
- TC**
Truncated Cone



CALIBER	ITEM NO.	BULLET TYPE	WEIGHT (Grains)	ENERGY (ft. lbs.)	VELOCITY (feet/second)					BULLET PATH (inches)			
					MUZZLE	25 Yds	50 Yds	75 Yds	100 Yds	25 Yds	50 Yds	75 Yds	100 Yds
BRONZE LINE PISTOL & REVOLVER AMMUNITION													
25 Auto	25A	FMJ	50	62	750	722	695	670	645	+1.83	0.00	-6.33	-17.50
32 Auto	32A	FMJ	71	126	900	869	838	809	781	+1.19	0.00	-4.28	-11.89
32 Auto	32B	JHP	68	117	980	849	820	791	763	+1.26	0.00	-4.49	-12.46
32 S&W Long	32SWLA	LRN	98	132	780	758	737	717	697	+1.64	0.00	-5.64	-15.50
32 S&W Long	32SWLB	LWC	100	103	680	655	630	607	584	+2.28	0.00	-7.75	-21.40
380 Auto	380A	FMJ	90	169	920	886	853	822	791	+1.13	0.00	-4.12	-11.46
380 Auto	380B	JHP	90	169	920	886	853	822	791	+1.13	0.00	-4.12	-11.46
38 Special	38A	LRN	158	235	820	801	783	765	749	+1.43	0.00	-5.00	-13.74
38 Special	38C	LWC	148	175	730	703	677	652	628	+1.95	0.00	-6.69	-18.50
38 Special +P	38D	JHP	125	250	950	920	892	864	837	+1.03	0.00	-3.77	-10.44
38 Special	38G	FMJ	132	207	840	817	795	773	752	+1.38	0.00	-4.82	-13.27
38 Special	38N	JSP	158	225	800	780	760	741	722	+1.54	0.00	-5.29	-14.55
38 Super +P	38SA	FMJ	130	343	1090	1041	1000	965	934	+0.75	0.00	-2.92	-8.16
38 Super +P	38SB	JHP	115	320	1120	1061	1013	972	937	+0.71	0.00	-2.83	-7.95
9mm Luger	9A	FMJ	115	338	1150	1099	1057	1020	988	+0.65	0.00	-2.59	-7.26
9mm Luger	9B	JHP	115	344	1160	1099	1049	1007	971	+0.65	0.00	-2.62	-7.37
9mm Luger (New)	9E	LRN	124	304	1050	1006	969	937	908	+0.70	0.00	-3.10	-8.85
9mm Luger (New)	9F	FMJ	147	310	980	965	941	919	900	+0.72	0.00	-3.25	-9.25
9mm Luger	9G	FMJ	124	339	1110	1059	1017	980	949	+0.71	0.00	-2.83	-7.86
357 Magnum	357A	JSP	158	505	1200	1132	1078	1033	994	+0.60	0.00	-2.46	-6.95
357 Magnum	357B	JHP	125	584	1450	1337	1235	1155	1093	+0.36	0.00	-1.78	-5.19
357 Magnum	357C	JHP	150	504	1230	1158	1100	1053	1012	+0.56	0.00	-2.35	-6.65
357 SIG	357SIG-A	FMJ-FP	124	512	1350	1242	1158	1093	1040	+0.45	0.00	-2.07	-5.95
10mm Auto	10A	FMJ-TC	200	490	1050	1008	972	941	912	+0.82	0.00	-3.08	-8.63
10mm Auto	10B	JHP	170	543	1200	1117	1052	1000	958	+0.62	0.00	-2.55	-7.21
40 S&W	40B	JHP	165	396	1040	1002	970	941	915	+0.83	0.00	-3.14	-8.75
40 S&W	40D	FMJ	165	355	985	955	928	903	879	+0.94	0.00	-3.46	-9.59
40 S&W	40E	FMJ-FP	180	388	985	957	931	908	885	+0.94	0.00	-3.44	-9.52
41 Mag	41A	JHP	210	774	1289	1200	1127	1068	1020	+0.50	0.00	-2.18	-6.20
41 Rem Mag	41C	TCSP	210	788	1300	1210	1141	1065	1038	+0.49	0.00	-2.16	-6.15
44 S&W Special	44SA	SWC W/GC	240	308	760	737	714	692	671	+1.75	0.00	-6.01	-16.56
44 S&W Special	44SB	JHP	180	383	980	938	902	869	839	+1.00	0.00	-3.67	-10.14
44 Rem Mag	44A	SWC W/GC	240	833	1250	1168	1103	1051	1008	+0.55	0.00	-2.32	-6.60
44 Rem Mag	44B	JHP	180	783	1400	1270	1167	1091	1032	+0.42	0.00	-2.01	-5.84
44 Rem Mag	44C	JHP	240	901	1300	1217	1151	1098	1053	+0.48	0.00	-2.12	-6.03
44 Rem Mag	44D	TCSP	240	900	1300	1216	1144	1086	1038	+0.49	0.00	-2.11	-6.00
45 Auto	45A	FMJ	230	352	830	809	789	769	749	+1.41	0.00	-4.90	-13.48
45 Auto	45B	JHP	185	333	900	867	836	805	776	+1.19	0.00	-4.30	-11.96
45 Auto	45C	FMJ-SWC	200	321	850	818	788	761	734	+1.36	0.00	-4.84	-13.48
45 Long Colt	45LB	FMJ-FP	250	355	800	783	766	750	733	+1.52	0.00	-5.22	-14.31
7.62 x 25 Tokarev	7.62RUS	FMJ	93	TBD							0.00		
9 x 21 IMI (New)	9X21	FMJ	123	364	1150	1093	1046	1007	973	+0.54	0.00	-2.57	-7.19
9 x 18 Makarov	9X18MAK	FMJ-TC	100	TBD							0.00		

This ballistics table was calculated by using current data for each load. Velocity figures are from test barrels; user velocities may vary from loads listed. The data in the table represents the approximate behavior of each loading under the following conditions: 59°F, barometric pressure of 29.52 inches, sea level altitude.

COWBOY



COWBOY LINE

From 38 Special to 45-90 Winchester, PMC brings Cowboy shooters the ultimate in accurate, target flattening, factory-loaded ammunition. All nine smokeless powder cartridges are packaged in the "Old West" style typical of the late 1800's. They are authentic reproductions of the historic original cartridges, with hard-cast, lead flat point bullets loaded to the moderate velocities that fit within Cowboy Action competition rules. Like all of our cartridges, PMC Cowboy ammo is manufactured to stringent control standards.



CALIBER	ITEM NO.	BULLET TYPE	WEIGHT (Grains)	VELOCITY (feet/second)			ENERGY			BULLET PATH (inches)				
				MUZZLE	50 Yds	100 Yds	MUZZLE	50 Yds	100 Yds	50 Yds	100 Yds	150 Yds	200 Yds	
Cowboy Ammunition														
38 Special	38CA	LFP	158	800	761	725	225	203	185					
357 Magnum	357CA	LFP	158	800	761	725	225	203	185					
44 Special	44CD	LFP	240	750	719	690	300	275	253					
45 Long Colt	45LA	LFP	250	800	767	736	355	331	309					
30-30 Win	30-30CB	LFP	170	1300	1198	1121	638	541	474	+2.77	0.00	-9.66	-26.99	
44-40 Win	44-40CA	LFP	225	725	723	695	281	261	242					
40-65 Win	40-65CA	LFP	260	1450	1311	1195	1214	993	824	+1.78	0.00	-7.86	-22.75	
45-70 Gov't	45-70CA	LFP	405	1350	1265	1193	1639	1438	1280	+2.47	0.00	-8.56	-23.86	
45-90 Win	45-90CA	LFP	300	1500	1345	1212	1499	1205	978	+1.66	0.00	-7.57	-22.07	

Abbreviations: LFP-Hard Cast Lead Flat Point

RIMFIRE



RIMFIRE

PMC is proud to introduce three great new products to its rimfire line:

.17PMC - A 17 caliber rimfire cartridge based on the 22 Long Rifle case. The 20 grain bullet has a muzzle velocity of 1,800 fps. Great mid-range small varmint and pest cartridge.

22 Short - This 22 Short high velocity round features a copper coated 29 grain bullet. Short range plinking and small pest control become economical with this round. Not recommended for semi-automatic weapons.

22 SCAT - With a 20 grain bullet and low noise, this round is excellent for small pest control at ultra short distances of 15 yards or less. Loaded in the 22 Long Rifle case, it has a muzzle velocity of 500 fps, Not recommended for semi-automatic firearms.

Predator - Genuine Jacketed Hollow Point, Jacketed Soft Point or Full Metal Jacket bullets. Accurate, long range power for serious small game and varmint hunters.

Match Rifle, 22 LR - Extremely accurate, optimized for use in bolt action competition rifles.

Match Pistol, 22 LR - Extremely accurate, provides peak performance in competition pistols.

Scoremaster, 22 LR - Accurate, low cost round for competition practice or all-round shooting.

Zapper, 22 LR - Copper coated solid or copper coated hollow point bullets, excellent for small game hunting and general shooting.

Sidewinder, 22 LR - Lowest cost, suitable for small game hunting, target shooting or plinking.

Moderator Subsonic, 22 LR - Low report, deep hollow point, a great choice for small game hunting.



CALIBER	ITEM NO.	BULLET TYPE	WEIGHT (Grains)	ENERGY (ft. lbs.)	VELOCITY (feet/second)					BULLET PATH (inches)			
					MUZZLE	25 Yds	50 Yds	75 Yds	100 Yds	25 Yds	50 Yds	75 Yds	100 Yds
RIMFIRE AMMUNITION													
.17 PMC (New)	.17PMC	JSP	20	144	1800	1672	1552	1439	1332	+0.35	0.00	-3.52	-6.61
22 Short (New)	22SH	LS	29	71	1050	975	900	835	775	+0.98	0.00	-7.60	-12.80
22 Super Subsonic (New)	22SCAT	LS	20	11	500	-	-	-	-	-	0.00	-	-
Zapper 22 LR High Vel.	22D	HP CC	38	138	1280	1174	1097	1036	987	+0.54	0.00	-2.33	-6.67
Zapper 22 LR High Vel.	22CC	Solid CC	40	140	1255	1156	1083	1025	978	+0.56	0.00	-2.40	-6.85
Sidewinder 22 LR High Vel.	22SC	Solid	40	139	1250	1153	1080	1023	976	+0.57	0.00	-2.42	-6.89
Moderator 22 LR Subsonic Vel.	22SS	HP	38	84	1000	957	921	886	854	+0.94	0.00	-3.50	-9.77

RIMFIRE MATCH & TARGET AMMUNITION													
Scoremaster 22 LR Std. Vel.	22SM	Solid	40	114	1135	1066	1012	967	929	+0.70	0.00	-2.82	-7.95
Match Pistol 22 LR Target Vel.	22MP	Solid	40	72	900**	867	835	804	774	+0.00	-2.39	-7.90	-16.78
Match Rifle 22 LR Target Vel.	22MR	Solid	40	98	1050*	1000	956	919	885	+0.84	0.00	-3.22	-9.03

MAGNUM RIMFIRE AMMUNITION													
Predator 22 Magnum	22WMA	JSP	40	324	1910	1808	1711	1619	1533	+0.08	0.00	-0.83	-2.48
Predator 22 Magnum	22WMB	JHP	40	324	1910	1808	1711	1619	1533	+0.08	0.00	-0.83	-2.48
Predator 22 Magnum	22WMC	FMJ	40	324	1910	1808	1711	1619	1533	+0.08	0.00	-0.83	-2.48

Abbreviations: JHP-Jacketed Hollow Point, JSP-Jacketed Soft Point, HP-Hollow Point, CC-Copper Coated
*24" Barrel **4 1/2" Barrel

PRIMERS

PMC'S INNOVATIVE HEAVY METAL-FREE, TRULY NON-TOXIC PRIMERS FOR HANDLOADERS.

Handloaders now have the option of using primers that are not only lead-free, they are completely devoid of the other heavy metals that are found in a number of the other primers currently available in the lead-free market, such as Boron, Barium, Bismuth and Strontium! *These primers are truly non-toxic!*

And there's more good news! This patented product is also unique in that performance closely approximates all the features of the best standard non-corrosive primers. Thoroughly tested by the respected firm of H.P. White Laboratories, they were shown to have exceptional sensitivity and uniformity. No special handling is required, because they are non-hygroscopic and will withstand all adverse temperature and humidity problems that have plagued other non-toxic primers. In fact, the not-to-exceed temperature range for PMC Green primers is -120 degrees F. to +175 degrees F.

There's more – These primers meet or exceed all SAAMI specifications for lead-based primers. Accelerated environmental testing has indicated a shelf life of at least 25 years, surpassing all other non-toxic primers by a decade. Spectrographic analysis of the exhaust from these primers shows the only residual from firing is a small trace of potash, which is completely harmless and commonly used as fertilizer.

PMC Green primers contain none of the aluminum, iron, boric acid or glass that is found in some lead-free formulas. No barrel damage, scorching or erosion will occur from their use. They work with a standard flash hole and do not need to be crimped into the case. They are available in small and large pistol and rifle, both standard and magnum sizes, as well as shotshell and 50 caliber BMG.



PMC'S COMPLETE LINE OF STANDARD PRIMERS

Accuracy and consistency usually found only in match grade primers characterize the new, high quality line of PMC primers. We offer a complete line of small and large pistol and rifle primers as well as #209 shotshell primers. We also offer the Berdan .217 (large rifle) primer.

As noted in a Precision Shooting magazine article, PMC primers are ideal for benchrest shooting as they allow for tighter groupings than other, more commonly used primers. In addition, high power shooters competing in long range matches are finding not only better accuracy, but lower sigmas (velocity variation). Competitive shooters have said that the uniformity of PMC primers meets or exceeds the other match grade primers they have historically used.

Perhaps the best news for handloading shooters is the fact that these primers are available at or below the price of standard non-corrosive primers currently on the market.

SIZE	ITEM NO.	TYPE	DESCRIPTION		TOXICITY
CENTER FIRE PRIMERS NON-TOXIC LINE					
Large Pistol	NLP	Boxer	Non-Toxic Large Pistol Primer	Non-corrosive	Heavy Metal Free
Large Pistol Magnum	NLPM	Boxer	Non-Toxic Large Pistol Magnum Primer	Non-corrosive	Heavy Metal Free
Small Pistol	NTSP	Boxer	Non-Toxic Small Pistol Primer	Non-corrosive	Heavy Metal Free
Small Pistol Magnum	NTSPM	Boxer	Non-Toxic Small Pistol Magnum Primer	Non-corrosive	Heavy Metal Free
.50 cal. BMG	NTBMG	Boxer	Non-Toxic .50 Caliber BMG	Non-corrosive	Heavy Metal Free
Large Rifle	NLR	Boxer	Non-Toxic Large Rifle Primer	Non-corrosive	Heavy Metal Free
Large Rifle Magnum	NLRM	Boxer	Non-Toxic Large Rifle Magnum Primer	Non-corrosive	Heavy Metal Free
Small Rifle	NTSR	Boxer	Non-Toxic Small Rifle Primer	Non-corrosive	Heavy Metal Free
Small Rifle Magnum	NTSRM	Boxer	Non-Toxic Small Rifle Magnum Primer	Non-corrosive	Heavy Metal Free

SIZE	ITEM NO.	TYPE	DESCRIPTION		TOXICITY
CENTER FIRE PRIMERS STANDARD LINE					
Large Pistol	LP	Boxer	Large Pistol Primer	Non-corrosive	Standard
Large Pistol Magnum	LPM	Boxer	Large Pistol Magnum Primer	Non-corrosive	Standard
Small Pistol	SP	Boxer	Small Pistol Primer	Non-corrosive	Standard
Small Pistol Magnum	SPM	Boxer	Small Pistol Magnum Primer	Non-corrosive	Standard
Large Rifle	LR	Boxer	Large Rifle Primer	Non-corrosive	Standard
Large Rifle Magnum	LRM	Boxer	Large Rifle Magnum Primer	Non-corrosive	Standard
Small Rifle	SR	Boxer	Small Rifle Primer	Non-corrosive	Standard
Small Rifle Magnum	SRM	Boxer	Small Rifle Magnum Primer	Non-corrosive	Standard
Large Rifle Berdan	LRB	Berdan	Large Rifle Berdan Primer	-	Standard

SIZE	ITEM NO.	TYPE	DESCRIPTION		TOXICITY
SHOTSHELL PRIMERS LINE					
.209 Shotshell	S209	Shotshell	Standard .209 Shotshell Primer	Non-corrosive	Standard