

# SHOTSHELL SCIENCE

## RESOURCES TO CHOOSE THE RIGHT LOAD

Breaking clay targets, wingshooting gamebirds, launching slugs at big game, protecting your home—there's almost no limit to what a shotgun paired with the right ammunition can do. But to maximize the platform's potential, you need to choose the load that best fits the application. Use the resources here to make the right call no matter what your pursuit might be.



AVERAGE PELLETT COUNT — STEEL SHOT										
Shot Size	Payload Weight									
	3/4	7/8	15/16	1	1 1/8	1 1/4	1 3/8	1 1/2	1 9/16	1 5/8
7	316	-	395	422	475	527	580	633	659	685
6	236	-	295	315	354	394	433	472	492	512
5	182	-	228	243	273	304	334	364	380	395
4	144	168	180	192	216	240	264	288	300	312
3	118	136	143	158	178	197	217	237	247	257
2	94	-	117	125	141	156	172	187	195	203
1	77	-	97	103	116	129	142	154	161	167
BB	54	-	67	72	81	90	99	108	112	117
BBB	46	-	58	62	70	77	85	93	97	101
T	39	-	49	52	58	65	71	78	81	84

*Weight of Shot in Ounces (Grams)*

AVERAGE PELLETT COUNT — LEAD SHOT														
Shot Size	Payload Weight													
	1/2	11/16	3/4	7/8	1	1 1/8	1 1/4	1 5/16	1 3/8	1 1/2	1 5/8	1 7/8	2	2 1/4
9	292	402	439	512	585	658	731	767	804	877	951	1097	1170	1316
8-1/2	249	342	373	435	497	559	621	652	683	745	808	932	994	1118
8	205	282	307	359	410	461	512	538	564	615	666	769	820	922
7-1/2	175	241	262	306	350	394	437	459	481	525	569	656	700	787
6	112	155	169	197	225	253	281	295	309	337	366	422	450	506
5	85	117	127	149	170	191	212	223	234	255	276	319	340	382
4	67	93	101	118	135	152	169	177	186	202	219	253	270	304
2	43	60	65	76	87	98	109	114	120	130	141	163	174	196
BB	25	34	37	44	50	56	62	65	69	75	81	94	100	112

*Weight of Shot in Ounces (Grams) (3% Antimony)*

AVERAGE PELLETT COUNT — HEAVYWEIGHT TSS SHOT						
Shot Size	Payload Weight					
	13/16	1 1/2	1 5/8	1 3/4	2 1/4	2 1/2
9	294	544	-	634	815	-
7	-	283	-	330	424	-
7/9	-	-	470	-	-	718
8/10	-	-	653	-	-	1006

*Weight of Shot in Ounces (Grams)*

SHOT SIZE REFERENCE CHART														
PELLET	T	BBB	BB	1	2	3	4	5	6	7	7 1/2	8	8 1/2	9
DIAMETER INCHES	.20	.19	.18	.16	.15	.14	.13	.12	.11	.10	.095	.09	.085	.08
DIAMETER MM	5.08	4.83	4.57	4.06	3.81	3.56	3.30	3.05	2.79	2.54	2.41	2.29	2.16	2.03

GAME GUIDE										
GAME	GAUGE	DISTANCE (YDS)	CHOKE	STEEL SHOT SIZES	GAME	GAUGE	DISTANCE (YDS)	CHOKE	HW TSS SHOT SIZES	LEAD SHOT SIZES
	10, 12, 16, 20	20-30	IC/M	1, 2, 3, 4		10, 12, 20	20-30	F	7, 8, 9, 10	4, 5, 6
	10, 12, 16, 20	30+	IC/M/F	BB, 1, 2, 3		10, 12, 20	30+	F/EF	7, 8, 9, 10	4, 5, 6
	12, 16, 20	20-30	IC/M	2, 3, 4, 6		12, 16, 20, 28	20-30	IC/M	3, 4	4, 5, 6, 7.5
	12, 16, 20	30+	IC/M/F	1, 2, 3, 4		12, 16, 20	30+	M/F	2, 3	4, 5, 6
	12, 16, 20, 28, 410	20-30	IC/M/F	3, 4, 6, 7		12, 16, 20, 28	20-30	SK/IC/M	-	6, 7.5, 8, 9
	12, 16, 20	30+	IC/M/F	3, 4		12, 16, 20	30+	IC/M	-	5, 6, 7.5
	10, 12	20-30	IC/M	T, BBB, BB		12, 16, 20	30+	IC/M	-	6, 7.5, 8
	10, 12	30+	IC/M	T, BBB, BB		12, 16, 20, 28	20-30	SK/IC/M	-	7.5, 8, 9
	10, 12	20-30	IC/M	BBB, BB, 1		12, 16, 20	30+	IC/M	-	7.5, 8
	10, 12	30+	IC/M	BBB, BB, 1		12, 16, 20, 28, 410	20-30	IC/M	-	4, 5, 6, 7.5
						12, 16, 20	30+	IC/M/F	-	4, 5, 6

Federal recommends patterning your gun to determine the optimum choke. \*EF=Extra Full F = Full Choke M = Modified Choke IC = Improved Cylinder, SK=Skeet



### COLOR CODING

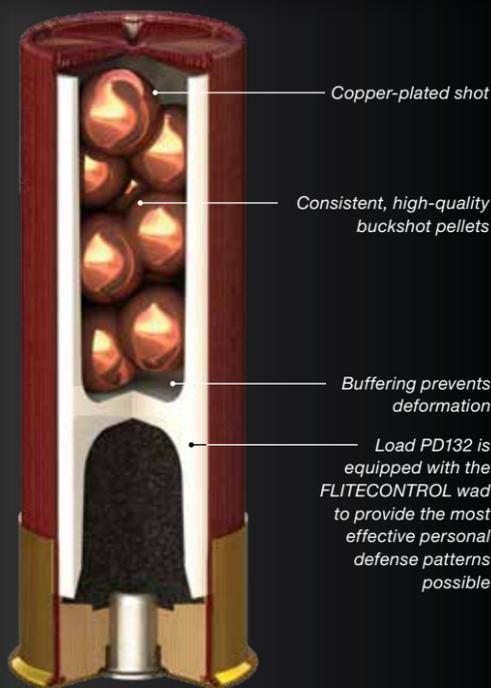
To increase safety among shooters, Federal was the first manufacturer to use color-coding for shotshells. This safety measure became an industry norm after it was introduced in 1960.



# PREMIUM® PERSONAL DEFENSE® SHOTSHELL

## PAYLOADS THAT PROTECT

Federal Premium® offers a variety of reliable buckshot loads, including those built around .410 handguns, to protect you and your family. Their specialized payloads produce patterns and penetration optimized to meet the unique needs of personal defense situations.



Copper-plated shot

Consistent, high-quality buckshot pellets

Buffering prevents deformation

Load PD132 is equipped with the FLITECONTROL wad to provide the most effective personal defense patterns possible

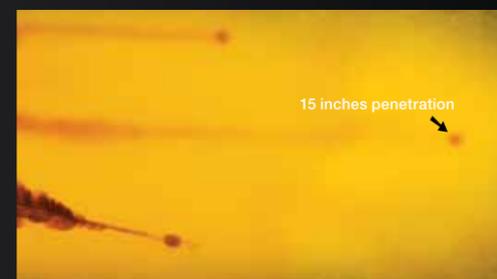
### THE THREAT SCATTERS NOT THE PELLETS

Target and gelatin shot with 12-gauge 2¾-inch 4 Buck, 34 pellets (PD156 4B) with improved cylinder choke at 5 yards. The load's unique wad configuration is designed to produce a 5-inch pattern at 15 feet—the ideal for in-home defense.



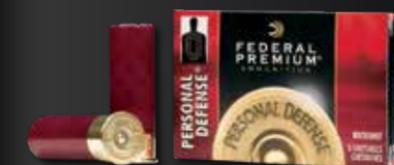
### HANDLES LIKE A PISTOL, PROTECTS LIKE A SHOTGUN

Premium Personal Defense .410 Handgun loads maximize the potential of the firearm platform, providing the ideal patterns for close-range as well as deep penetration. Target and gelatin shot with 2½-inch, 000 Buck .410 Handgun (PD412JGE 000) from a Taurus Judge at 5 yards.



### TECHNOLOGIES

.410 Handgun Optimized\*  
Specially Formulated Propellant  
FLITECONTROL® Wad\*  
\*Specific loads only



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#### PERSONAL DEFENSE SHOTSHELL WITH FLITECONTROL

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD
PD132	12	2¾	1145	9 Pellets - 00 Buck

#### PERSONAL DEFENSE SHOTSHELL

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD
PD156	12	2¾	1100	34 Pellets - 4 Buck
PD256	20	2¾	1100	24 Pellets - 4 Buck

#### PERSONAL DEFENSE .410 HANDGUN

LOAD NO.	SHELL LENGTH	VELOCITY	PAYLOAD	LOAD NO.	SHELL LENGTH	VELOCITY	PAYLOAD
PD413JGE 000	3	775	5 pellets-000 Buck	PD412JGE 000	2½	850	4 pellets - 000 Buck
PD413JGE 4B	3	950	9 pellets-4 Buck	PD412JGE 4	2½	950	7/16 ounce - 4 Shot

# TROPHY<sup>®</sup> COPPER SABOT SLUG



## TECHNOLOGIES

- Specially Formulated Propellant
- Trophy Copper Slug
- Two-Part Sabot
- Pusher-Plate Base

## DROP 200 POUNDS AT 200 YARDS

The Trophy Copper Sabot incorporates the industry's most advanced slug technology to deliver groups as small as 3½ inches at 200 yards. In addition to this accuracy, hunters get less drop, more manageable recoil, and consistent penetration and expansion at any range.



The wad's pusher plate keeps the slug perfectly centered down the barrel

Unique two-part sabot supports the slug base for clean, consistent separation

Polymer tip and sleek profile increase the ballistic coefficient for higher downrange velocity and energy

Deep, externally skived slug cavity for consistent, superior expansion across a broad velocity range



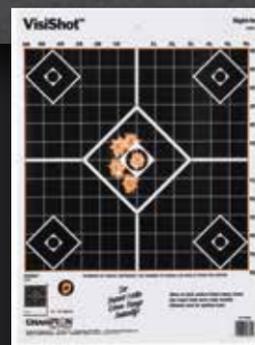
## 200-YARD PERFORMANCE

The Trophy Copper slug's exclusive design results in reliable, deadly expansion across a broad velocity range.



## THIS IS WHAT CONSISTENCY LOOKS LIKE

By incorporating a deep, externally skived cavity in the nose, we ensure the Trophy Copper Slug opens consistently—whether it hits the target at 20 yards or 200-plus. Gelatin shot at 100 yards.



## SLUG ACCURACY REDEFINED

By combining a two-part sabot with a sleek polymer-tip projectile, the Trophy Copper Slug achieves rifle-like groups at 100 yards.

★★★★★  
**Ever shoot a big bull elk with a slug gun?**  
*I did this last elk season in western Wyoming. Savage 212 with 3" 300 grain, 106 yards. He was quartered away so the entry was behind the rib, right in the boiler room. He went 10 yards and took a dive. I'm shooting 2" 4-shot groups at 100 yards."*

✓ **Yes, I recommend this product.**

**RATINGS & REVIEWS**  
We make it easy to review ammunition online and check out the ratings of others. Go to [federalpremium.com](http://federalpremium.com).



LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	GR.
P152 TC	12	2¾	1900	300
P151 TC	12	3	2000	300

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	GR.
P208 TC	20	2¾	1700	275
P209 TC	20	3	1900	275



# TRUBALL® RIFLED SLUG

## MAKE YOUR BIRD BARREL A TACK-DRIVER

Smoothbore slugs aren't supposed to deliver accuracy like this. But the TruBall system centers the projectile as it travels down the barrel for groups as tight as 1.4 inches at 50 yards. The Deep Penetrator version's high-antimony lead provides extra penetration needed for tough hogs and bears.



50 YARDS



100 YARDS

## SMOOTHBORE SALVATION

Forget everything you think you know about smoothbore slug gun accuracy. The TruBall prints groups at 50 and even 100 yards that would rival some rifles. Targets shot with PB127 RS at 50 and 100 yards.

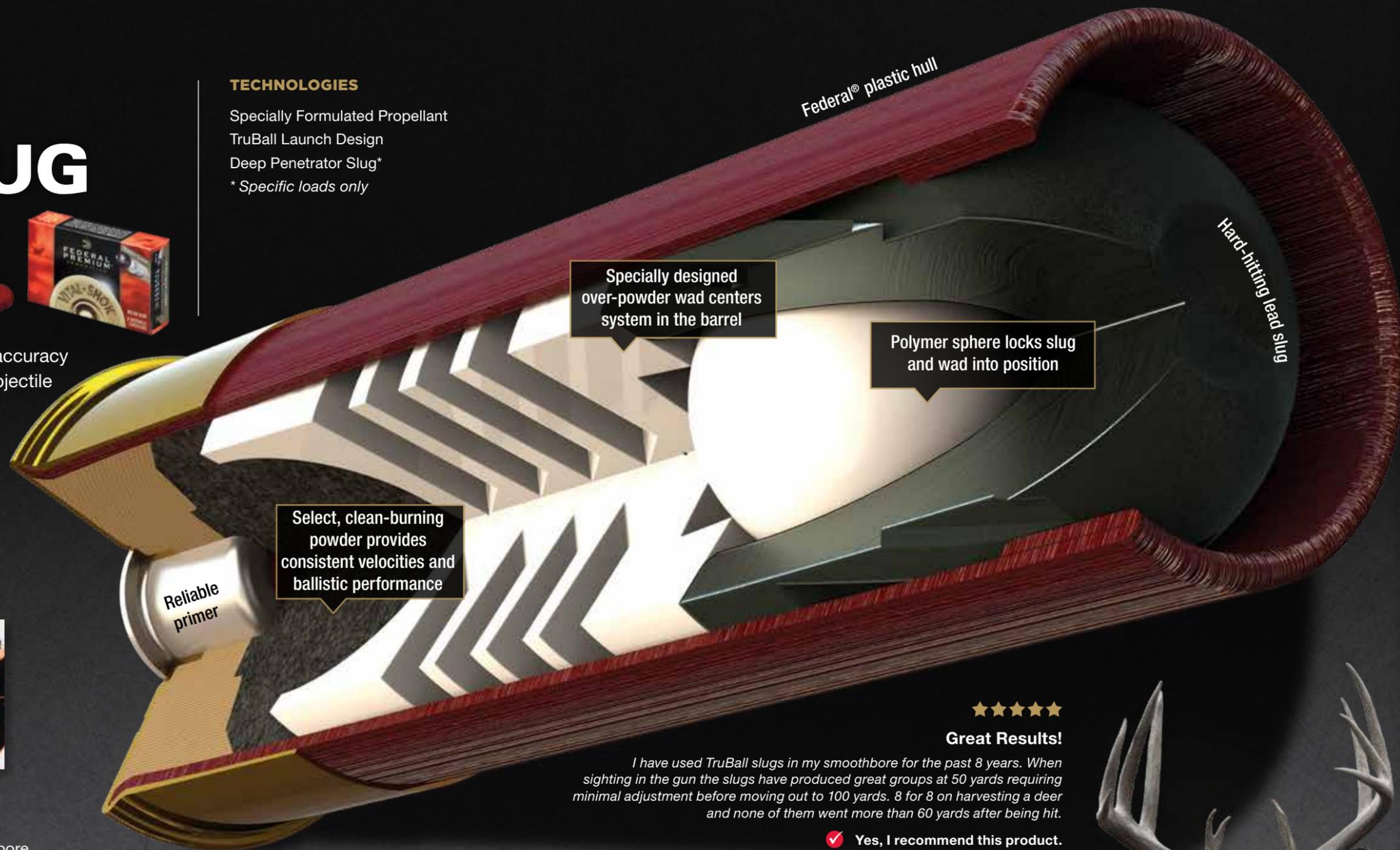
## DEEP THOUGHTS

High-antimony lead makes the TruBall Deep Penetrator Slug significantly harder, giving it superior penetration on tough game. Gelatin shot with PB127 DPRS at 100 yards; the slug penetrated more than 24 inches, passing completely through the block.



### TECHNOLOGIES

- Specially Formulated Propellant
- TruBall Launch Design
- Deep Penetrator Slug\*
- \* Specific loads only



### Great Results!

*I have used TruBall slugs in my smoothbore for the past 8 years. When sighting in the gun the slugs have produced great groups at 50 yards requiring minimal adjustment before moving out to 100 yards. 8 for 8 on harvesting a deer and none of them went more than 60 yards after being hit.*

Yes, I recommend this product.

### RATINGS & REVIEWS

We make it easy to review ammunition online and check out the ratings of others. Go to [federalpremium.com](http://federalpremium.com).



## HUNTERS FOR CONSERVATION®

Learn how Federal® supports responsible stewardship of our land, waters and wildlife through the Hunters For Conservation program. Go to [federalpremium.com](http://federalpremium.com) or follow @Hunters4Conservation on Twitter.

### VITAL•SHOK TRUBALL RIFLED SLUG

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	OUNCES	LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	OUNCES
PB127 LRS*	12	2¾	1300	1	PB131 RS	12	3	1700	1
PB127 RS	12	2¾	1600	1	PB203 RS	20	2¾	1600	¾
					PB209 RS	20	3	1700	¾

\*Low-recoil load

### VITAL•SHOK TRUBALL DEEP PENETRATOR RIFLED SLUG

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	OUNCES
PB127 DPRS	12	2¾	1350	1





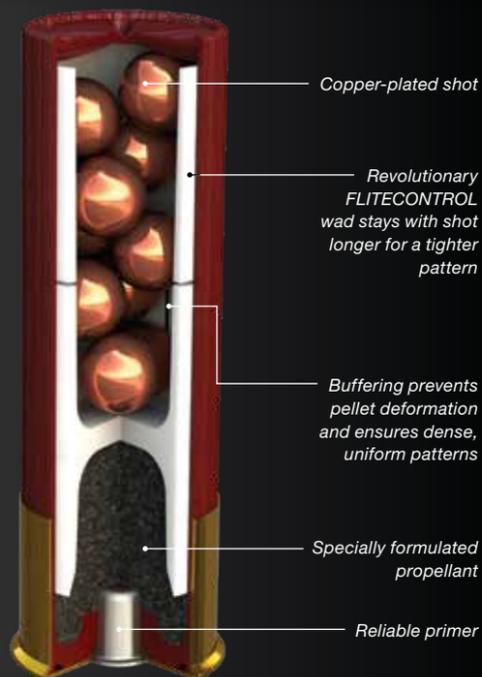
# VITAL•SHOK® BUCKSHOT

## SCATTERGUN PATTERNS ARE FOR THE BIRDS

Buckshot often gets dismissed as the stuff of simple scatterguns, but at Federal®, we engineer these shotshells to provide the same superior performance as all of our other loads. Technologies like the FLITECONTROL® wad allow these loads to produce precise, deadly patterns.

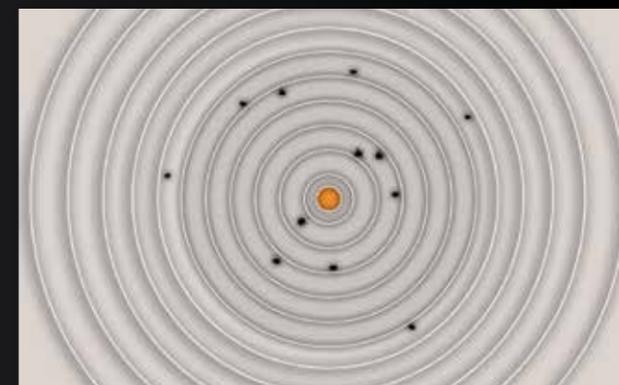
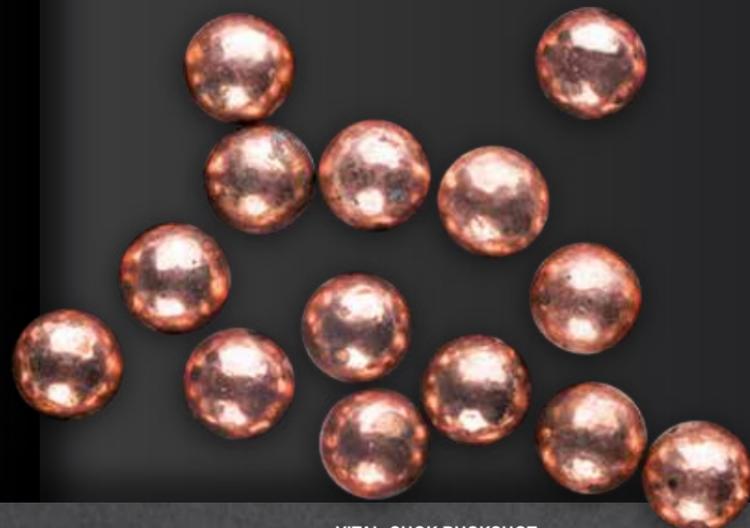
### TECHNOLOGIES

FLITECONTROL Wad\*  
Specially Formulated Propellant  
\*Specific loads only



### HEAVY METAL

Our precision-crafted buckshot pellets are perfectly round and resist deformation thanks to advanced copper plating. The results are extremely tight, consistent patterns.



### REACH OUT AND TOUCH THEM

Vital-Shok Buckshot loads with the FLITECONTROL wad offer hunters tight long-range patterns. Target shot with 12-gauge 3-inch Vital-Shok Buckshot (PFC157 00) with a full choke at 30 yards; 12 hits and 12-inch spread.

### BUCKSHOT SIZES

PELLET	DIA. INCHES	DIA. MM
No. 000	.36	9.14
No. 00	.33	8.38
No. 0	.32	8.13
No. 1	.30	7.62
No. 2	.27	6.86
No. 3	.25	6.35
No. 4	.24	6.10



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#### VITAL•SHOK BUCKSHOT WITH FLITECONTROL WAD

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD
PFC157 00	12	3	1325	12 Pellets - 00 Buck
PFC154 00	12	2¾	1325	9 Pellets - 00 Buck

#### VITAL•SHOK BUCKSHOT

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD
P108F 00	10	3½	1100	18 Pellets - 00 Buck
P135F 00	12	3½	1100	18 Pellets - 00 Buck
P158 4B	12	3	1100	41 Pellets - 4 Buck

#### VITAL•SHOK BUCKSHOT (CONT.)

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD
P158 000	12	3	1225	10 Pellets - 000 Buck	P258 2B	20	3	1100	18 Pellets - 2 Buck
P154 00	12	2¾	1325	9 Pellets - 00 Buck	P256 3B	20	2¾	1175	20 Pellets - 3 Buck
P156 00	12	2¾	1290	12 Pellets - 00 Buck					



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# BLACK CLOUD®

## NOW WITH TUNGSTEN SUPER SHOT

When birds fly high, tear them down from the sky. Black Cloud TSS carries on a lethal legacy, blending proven FLITESTOPPER® Steel pellets and 18 g/cc Tungsten Super Shot. With 56 percent higher density than lead and more than double the density of steel, TSS pellets maintain velocity farther, hit harder and penetrate deeper than any waterfowl payload ever has.



### TECHNOLOGIES

- FLITECONTROL FLEX Wad
- FLITESTOPPER Steel Pellets
- Tungsten Super Shot\*
- Clean, Temperature-Stable Propellant
- Catalyst Lead-Free Primer

\*select loads only

**NEW!**

### CLEAN & CONSISTENT

Black Cloud's highly efficient Catalyst lead-free primer and clean-burning propellant significantly decrease residue in a shotgun's barrel and action. The propellant is also extremely temperature stable, which translates to virtually identical velocities—and required leads—from warm early-season hunts to cold late-season ones.



### PARTNER SPOTLIGHT: CHAD BELDING

Chad Belding, host of Federal Premium-sponsored "The Fowl Life," has built a reputation as a diehard duck and goose hunter who puts birds down in any situation. That's why he loads his shotgun with Black Cloud on every hunt. It's the only ammunition that delivers the lethal performance he needs.



40 percent FLITESTOPPER Steel

60 percent TSS pellets; more than double the density of steel and 56 percent denser than lead

Lead-free Catalyst™ primer

Clean, temperature stable propellant

Rear-opening FLITECONTROL FLEX wad provides the most consistent patterns in all waterfowl chokes

Black nickel-plated head



FLITECONTROL FLEX™ WAD

### 30 PERCENT BETTER PATTERNS THROUGH PORTED CHOKES\*

Produce more efficient patterns through both ported chokes and standard tubes with the FLITECONTROL FLEX wad. Patent-pending rear-deploying petals feature reinforced gussets to allow them to deploy when fired through ported chokes that decrease muzzle pressure. Side-mounted slits stimulate the payload for separation from the wad at the ideal moment for consistent, deadly patterns.

\*Claim based on 10-round average pattern efficiency comparison of PWB134 BB and PWBX134 BB shot through Patternmaster®, Indian Creek Black Diamond Triumph and Kick's High Flyer™ chokes at 40 yards.

### CUTTING-EDGE TECHNOLOGY—LITERALLY

FLITESTOPPER Steel creates massive wound cavities visible in ballistic gelatin. Its amazing shot construction features a cutting edge that devastates on impact.



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#### BLACK CLOUD FS STEEL

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PWBX107	10	3½	1375	1½	BB, 2
PWBX134	12	3½	1500	1½	BBB, BB, 1, 2, 3, 4
PWBX142	12	3	1450	1¼	BBB, BB, 1, 2, 3, 4

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PWBX147	12	2¾	1500	1½	BB, 2, 3, 4
PWBX209	20	3	1350	1	1, 2, 3, 4

#### BLACK CLOUD TSS

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
<b>NEW</b> PWBTSX142 7BB	12	3	1450	1¼	BB FS Steel/7 TSS
<b>NEW</b> PWBTSX142 39	12	3	1450	1¼	3 FS Steel/9 TSS

#### BLACK CLOUD FS STEEL HIGH VELOCITY

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PWBXH143	12	3	1635	1½	BB, 1, 2, 3, 4

AVAILABLE LOADS

# 3RD DEGREE®



## ONE LOAD—ANY RANGE

Federal Premium® 3rd Degree has redefined turkey shotshell performance once again with the addition of the FLITECONTROL FLEX™ wad and HEAVYWEIGHT Tungsten Super Shot shot. The system performs through standard and ported turkey chokes to deliver larger, more forgiving patterns at close range, while still providing deadly performance at longer distances.

### TECHNOLOGIES

- FLITECONTROL FLEX Wad
- FLITESTOPPER® Lead Pellets
- HEAVYWEIGHT TSS Pellets



40 percent No. 7 HEAVYWEIGHT Tungsten Super Shot: Groups tightly at the pattern's center for long-range lethality

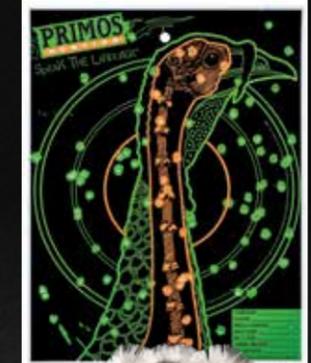
40 percent No. 5 Premium® lead: Creates a dense, deadly pattern at midrange

20 percent No. 6 FLITESTOPPER lead: Spreads quickly to create a forgiving close-range pattern

The FLITECONTROL FLEX wad works through both ported and standard turkey chokes

### LONG-RANGE LETHALITY

The No. 7 HEAVYWEIGHT TSS and Premium lead portions of the 3rd Degree payload create dense, high-energy patterns at long range. Target shot at 40 yards with PTDX157 567 through a 28-inch barrel and a ported Indian Creek choke.



### CLOSE-RANGE FORGIVENESS

The FLITESTOPPER lead portion of the 3rd Degree payload spreads quickly, creating forgiving patterns close up. Targets shot with a 28-inch barrel and Indian Creek ported turkey choke at 12 yards; yellow area denotes effective pattern size.



3rd Degree  
PTDX157 567



Conventional lead turkey load,  
1¼-ounce No. 5 shot

### PARTNER SPOTLIGHT: National Wild Turkey Federation

Federal has been a major sponsor of the National Wild Turkey Federation (NWTF) since its beginning, and our entire line of turkey loads including 3rd Degree, Grand Slam® and HEAVYWEIGHT® TSS feature the NWTF logo, so hunters can support NWTF with every box they purchase.



LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PTDX139 567	12	3½	1250	2	5-6-7
PTDX157 567	12	3	1250	1¾	5-6-7

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PTDX258 567	20	3	1100	1½	5-6-7

**NEW!**

# HEAVYWEIGHT<sup>®</sup> TSS

## EXTREME RANGE GOBBLER-GETTER

Go beyond the limits of long range with Federal Premium<sup>®</sup> Ammunition's HEAVYWEIGHT TSS. The loads blend the skull-shattering 18 grams/cc density of Tungsten Super Shot pellets with the new FLITECONTROL FLEX<sup>™</sup> wad system to provide the tightest, most deadly patterns possible at extreme range. The rear-braking wad also works through both standard chokes and the most aggressive ported turkey tubes for even more consistent patterns.

### TECHNOLOGIES

FLITECONTROL FLEX Wad\*  
HEAVYWEIGHT TSS Pellets

\*Does not include .410 load, PTSS419F



Clean-burning propellant

Extremely reliable Federal<sup>®</sup> primer

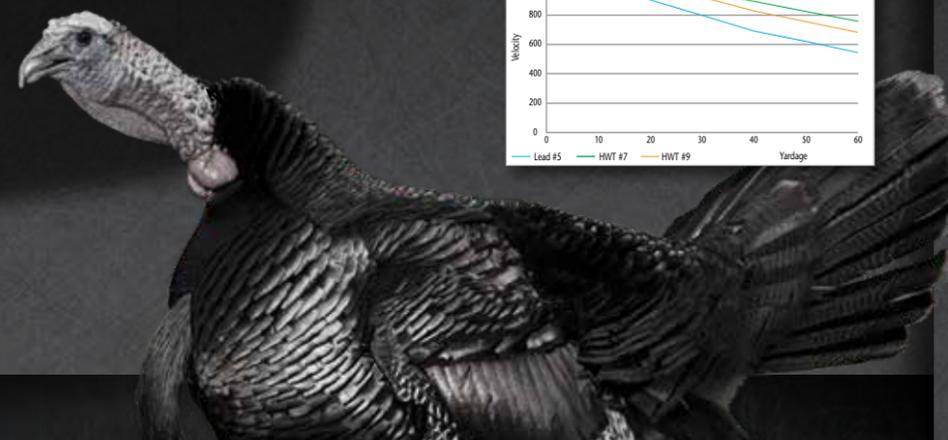
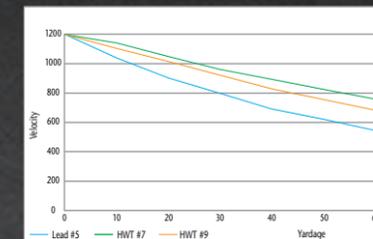
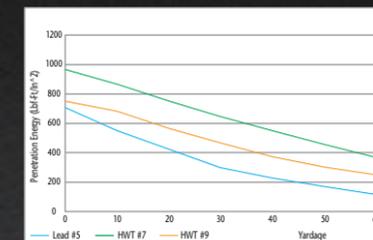
FLITECONTROL FLEX wad provides extremely tight, consistent patterns through standard and ported turkey chokes

HEAVYWEIGHT TSS payload is 56 percent denser than lead and 20 percent denser than original HEAVYWEIGHT tungsten

18 g/cc  
DENSITY

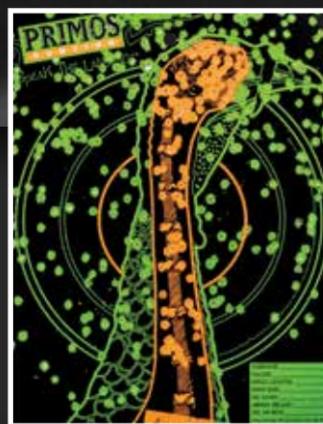
### THE POWER OF HEAVYWEIGHT TSS

For the most powerful patterns possible, turn to HEAVYWEIGHT TSS. The No. 9 pellets have more penetration energy at 60 yards than No. 5 lead at 40 yards, with nearly the same velocity—all with a drastically higher pellet count.



### MORE PELLETS THAN EVER BEFORE

New blended loads combine No. 7 and 9 or 8 and 10 Tungsten Super Shot. With some payloads topping 1,000 pellets, they put more hits on target than any turkey load in history. Target shot with 2 1/2-ounce load of No. 8 and 10 HEAVYWEIGHT TSS (PTSSX195F 810) at 40 yards through an Indian Creek .665 constriction choke.



### .410 PERFORMER

With the increased power and pellet counts of HEAVYWEIGHT TSS loads, hunters can get the patterns of hard-kicking 12-gauge lead loads while using a low-recoil .410. Target shot at 40 yards with PTSS419F 9 through a fixed full choke. Load does not include the FLITECONTROL FLEX wad.

### DENSITY MATTERS

The small shot sizes of HEAVYWEIGHT TSS payloads provide much higher pellet counts than comparable lead ones. For example, the 1 3/4-ounce No. 9 HEAVYWEIGHT TSS load (PTSSX193F 9) holds approximately 635 pellets—330 more than a No. 5 lead payload of the same weight. This means more pellets on target, especially at long range.

#### HEAVYWEIGHT TSS WITH FLITECONTROL FLEX WAD

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT	LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
<b>NEW</b> PTSSX195F	12	3 1/2	1000	2 1/2	7/9, 8/10	<b>NEW</b> PTSSX295F	20	3	1000	1 5/8	7/9, 8/10
PTSSX191F	12	3 1/2	1200	2 1/4	7, 9	<b>NEW</b> PTSSX259F	20	3	1100	1 1/2	7, 9
PTSSX193F	12	3	1200	1 3/4	7, 9	PTSS419F	.410	3	1100	13/16	9



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AVAILABLE LOADS



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# GRAND SLAM®

## LEAD PAYLOADS HAVE NEVER HIT HARDER

Extend the range and enhance the lethality of conventional turkey payloads with Federal Premium® Grand Slam. Its FLITECONTROL FLEX™ wad system works in both standard and ported turkey chokes, opening from the rear for a controlled release of the payload. The high-quality copper-plated lead pellets provide dense patterns and ample energy to crush gobblers.



### TECHNOLOGIES

FLITECONTROL FLEX Wad  
Copper-Plated Lead Shot  
Specialized Buffering

FLITECONTROL FLEX wad provides extremely tight, consistent patterns through standard and ported turkey chokes

High-quality copper-plated lead shot

Buffering prevents pellet deformation for more consistent patterns

Extremely reliable Federal® primer



### BUFFER ZONE

New Grand Slam uses an advanced buffering compound to protect pellets at ignition, preventing deformation for better, more consistent patterns.

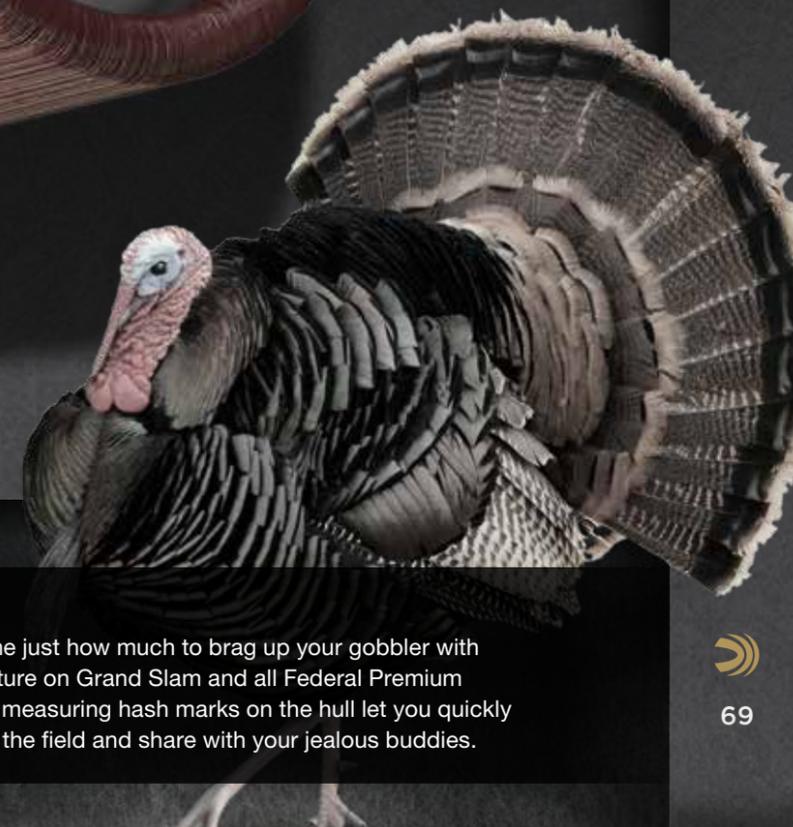
### PATTERNS PERFECTED

Grand Slam's FLITECONTROL FLEX wad opens from the rear to create dense long-range patterns that knock down hung-up gobblers. Target shot with PFCX157F 5 through a ported Indian Creek choke at 40 yards.



### SPUR TAPE

Instantly determine just how much to brag up your gobbler with Spur Tape—a feature on Grand Slam and all Federal Premium turkey loads. The measuring hash marks on the hull let you quickly measure spurs in the field and share with your jealous buddies.



GRAND SLAM WITH FLITECONTROL FLEX WAD

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT	LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PFCX101F	10	3½	1200	2	4, 5	PFCX156F	12	2¾	1200	1½	5
PFCX139F	12	3½	1200	2	4, 5, 6	PFCX258F	20	3	1185	1½/16	5
PFCX157F	12	3	1200	1¾	4, 5, 6						



# PRAIRIE STORM®



## THE ONLY THING BETTER THAN HEARING A CACKLE IS MAKING IT STOP

Pheasants are fast, tough birds. That's why we combined our FLITECONTROL® wad and FLITESTOPPER® pellet technologies to create Prairie Storm. Whether you choose steel or lead, the loads deliver consistent patterns that put more than 75 percent of their pellets in a 30-inch circle at 40 yards.

### TECHNOLOGIES

FLITECONTROL Wad  
FLITESTOPPER Pellets

Prairie Storm FS Lead™

70 percent Premium® copper-plated lead shot

30 percent FLITESTOPPER lead for even edge-to-edge patterns and bigger wound channels

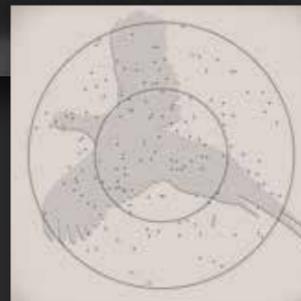
Specially formulated propellant

FLITECONTROL® wad's rear-braking design ensures dense, consistent patterns



### STEEL ALTERNATIVE

Prairie Storm FS Steel® is the steel equivalent to your favorite upland load, with a payload of Premium brand steel (50 percent) and FLITESTOPPER Steel (50 percent). It provides the same pellet count and downrange velocity of popular lead loads.



### HOLES IN THE BIRD, NOT THE PATTERN

PF154FS 4 puts more than 75 percent of its pattern in a 30-inch circle at 40 yards with a modified choke.

### PARTNER SPOTLIGHT: Pheasants Forever

Since 1998, Federal® has supported Pheasants Forever with an on-box ammunition royalty program. For every box of Prairie Storm or Wing-Shok® you buy with the Pheasants Forever logo, Federal donates a portion of the proceeds to the organization's habitat and education programs. We've sold nearly 55 million of these special shotshells!



#### PRAIRIE STORM FS LEAD

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT	LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PF129FS	12	3	1350	1 5/8	4, 5, 6	PF258FS	20	3	1300	1 1/4	4, 5, 6
PF154FS	12	2 3/4	1500	1 1/4	4, 5, 6	PF204FS	20	2 3/4	1350	1	4, 5, 6

#### PRAIRIE STORM FS STEEL

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PFS143FS	12	3	1600	1 5/8	3, 4
PFS207FS	20	3	1500	7/8	3, 4



70

AVAILABLE LOADS



71

AVAILABLE LOADS

PHEASANTS

# HI-BIRD®

## TAKES HIGH-FLYING BIRDS DOWN HARD

Hi-Bird uses a two-piece wad with SoftCell™ technology to decrease perceived recoil and produce more consistent long-range patterns. Plus, its lead shot is engineered for the optimum blend of hardness and density. The result is a dense pattern with more downrange energy—perfect for high-flying doves, crows, pigeons and upland birds.



### TECHNOLOGIES

- Hard, Specially Formulated Lead Shot
- SoftCell Wad Technology

### BETTER PATTERNS

Hi-Bird uses hard, highly uniform lead pellets to prevent deformation and create the most consistent, even patterns possible.



### PARTNER SPOTLIGHT: Quail Forever

Federal is the official ammunition of Quail Forever. We're devoted to the organization's mission of conserving quail and other wildlife through habitat improvements, education and land management policies and programs. Learn more at [quailforever.org](http://quailforever.org).



### WING-SHOK®

If you hunt upland birds, you work for every flush. So, when a bird gets up, make it happen with Federal Premium® Wing-Shok. The precision-built loads use extra-hard copper-plated lead shot, Federal Premium hulls and brass-plated heads for peak performance.

#### HI-BIRD

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
HVF12H	12	2¾	1330	1¼	4, 5, 6, 7.5, 8
HVF12	12	2¾	1275	1¼	6, 7.5, 8

#### WING-SHOK MAGNUM

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
P156	12	2¾	1315	1½	4, 6
P165	16	2¾	1260	1¼	4, 6
P258	20	3	1300	1¼	4, 5, 6
P256	20	2¾	1175	1¼	4, 6

#### WING-SHOK HIGH VELOCITY

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
P129	12	3	1350	1½	4, 5, 6
P128	12	2¾	1500	1¼	4, 6, 7.5
P138	12	2¾	1500	1¼	4, 5, 6
P283	28	2¾	1295	¾	6, 7.5, 8

#### WING-SHOK PHEASANTS FOREVER HIGH VELOCITY

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	PAYLOAD	SHOT
PF154	12	2¾	1500	1¼	4, 5, 6, 7.5
PF163	16	2¾	1425	1¼	4, 5, 6
PF204	20	2¾	1350	1	4, 5, 6, 7.5



**NEW!**

COMPETITION CLAY TARGET

# GOLD MEDAL GRAND®

## LEAVE OTHERS IN THE DUST

The look, feel and performance of Gold Medal® Paper shotshells made them the favorite of the most serious clay target shooters. Now there's an even better option—Gold Medal Grand Paper. The loads combine Federal Premium® Ammunition's classic paper hull with less felt recoil and harder shot.



### TECHNOLOGIES

- PrimerLock® Head\*
- SoftCell™ Wad
- Reloadable Hull
- Specially Formulated Propellant
- \* Gold Medal Grand Plastic only

### PARTNER SPOTLIGHT: USA SHOOTING



When America's best clay target shooters compete on the world stage, they make a simple choice. Gold Medal Grand Paper, only from Federal—the official shotshell ammunition of USA Shooting. Learn more at [usashooting.org](http://usashooting.org).

Official Sponsor



Two-piece wad utilizes SoftCell technology to decrease perceived recoil and produce more uniform patterns than one-piece designs

Lead shot is engineered for the optimum blend of hardness and density for even patterns and maximum downrange power

Rigid PrimerLock head improves primer sensitivity, ensuring proper ignition in the event of a light hit; Gold Medal Grand Paper uses a high-quality brass head

Integral base wad maximizes reloadability



### SHOCK ABSORBER

Gold Medal Grand's two-piece wad creates an air pocket that absorbs energy and delays the compression process. The result is recoil that hits the shooter's shoulder later and with less force.

### SOFTER ON YOU. HARDER ON TARGETS.

Gold Medal Grand's specially formulated shot offers the hardness of 5 percent antimony lead while maintaining the density needed to hit targets hard at long range. Its SoftCell wad technology also slashes felt recoil and improves pattern consistency.

### GOLD MEDAL GRAND

For decades, Gold Medal shotshells have set the standard for competitive trap, skeet and sporting clays shooters. Gold Medal Grand Plastic produces less felt recoil, more reliable ignition and improved shot hardness—all with the same world-class performance shooters expect from Federal Premium Ammunition.



#### GOLD MEDAL GRAND

#### GOLD MEDAL PLASTIC

#### GOLD MEDAL GRAND PAPER

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	DRAM	PAYLOAD	SHOT
<b>NEW</b> GMT119	12	2¾	1335	3¼	24 gram	7.5, 9
GMT113	12	2¾	1180	2¾	1	7.5, 8
GMT114	12	2¾	1100	Extra-Lite	1⅛	7.5, 8
GMT115	12	2¾	1145	2¾	1⅛	7.5, 8
GMT116	12	2¾	1200	3	1⅛	7.5, 8
GMT178	12	2¾	1235	HDCP	1⅛	7.5, 8

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	DRAM	PAYLOAD	SHOT
T206	20	2¾	1200	2½	7⁄8	8, 9
T280	28	2¾	1230	2	¾	8.5, 9
T412	410	2½	1230	Max.	½	8.5, 9

LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	DRAM	PAYLOAD	SHOT	LOAD NO.	GAUGE	SHELL LENGTH	VELOCITY	DRAM	PAYLOAD	SHOT
GMT175	12	2¾	1180	2¾	1	8	GMT118	12	2¾	1200	3	1⅛	7.5, 8
GMT117	12	2¾	1145	2¾	1⅛	7.5, 8	GMT171	12	2¾	1235	HDCP	1⅛	7.5, 8

AVAILABLE LOADS