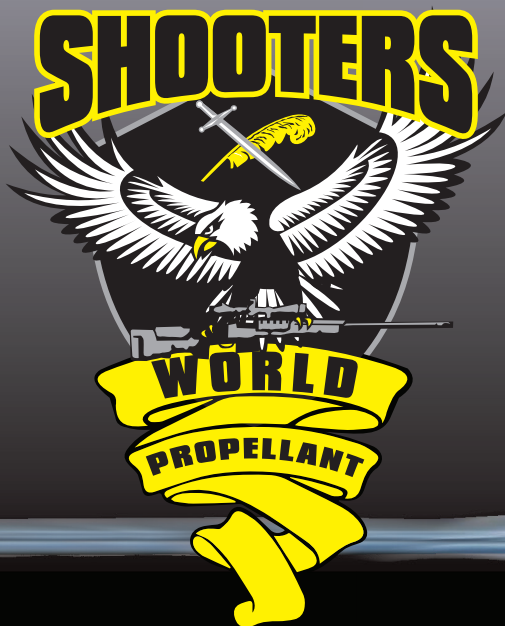


SHOOTERS WORLD RELOADING GUIDE



ShootersWorldpowder.com

Shooters World	Lovex	Western Powders	Hodgdon Powders	Winchester Propellants	Alliant	IMR	VihtaVuori
Sparta 100	D013-01	Nitro 100		WAALITE			N310
			TITEWAD®		Red Dot	IMR Red	
		Competition					
				WST	Green Dot	IMR Green	
Clean Shot	D032	Accurate® No 2	TITEGROUP®	231	Bullseye		N320
Ultimate Pistol				Autocomp	Unique		
					Herco		
			Universal				
		Silhouette		WSF			
Auto Pistol	D036.3	Accurate® No 5					3N37
			HS 6		Power Pistol		N330
Major Pistol	D037.1	Accurate® No 7			Blue Dot	IMR Blue	
			LONGSHOT®				
Heavy Pistol	D037.2	Accurate® No 9					
			LIL'GUN®		2400		
			H110®	296		IMR 4227	N110
Buffalo Rifle	D060	Accurate® 5744			300-MP		
SOCOM			H4198			IMR 4198	N120
Blackout	D063	Accurate® 1680		680	Reloader 7		
AK-Plus	D073.4	Accurate® 2230	H335®		Reloader 10	IMR 3031	N130
Tactical Rifle	D073.01/73.08						
	D073.5	Accurate® 2460	BL-C(2)®	748		IMR 8208	N133
			LEVERevolution®		AR-Comp		N135
Match Rifle	D073.6	Accurate® 2520	CFE 223		Reloader 15	IMR 4064	N140
Precision	S062		VARGET®			IMR 4320	
			H380®				
Long Rifle	S065		H414®	760			N150
					Reloader 17		
SW4350	S070	Accurate® 4350	H4350			IMR4350	
							N550
	S071	Accurate® 3100	H4831®		Reloader 19		N160
				SUPREME 780			
					Reloader 22		N560
							N165
					Reloader 25		N170
			H1000				
BMG	D100		H50BMG		Reloader 33		
			US869				20N29

Burn rate charts provide an approximate comparison of gas generation rates between propellants. This chart should NOT be used to directly substitute one propellant for another. However, when propellants noted occupy the same burn rate, they likely have adequate substitutionary characteristics.

Shooters World Pistol Powder

1	Calibers	Clean Shot	Ultimate Pistol	Auto Pistol	Major Pistol	Heavy Pistol	Buffalo	SOCOM
2	.380 Auto							
3	9 x 18 Makarov							
4	9mm Luger							
5	.327 Federal							
6	.38 Super Auto							
7	.38 Special							
8	.357 Sig							
9	.357 Magnum							
10	.40 S&W							
11	10mm Auto							
12	.41 Rem. Mag.							
13	.44 Special							
14	.44 Rem. Mag.							
15	.45 Auto							
16	.45 Colt							
17	.45 GAP							
18	.454 Casull							
19	.460 S&W Mag							
20	.500 S&W							
21								
22								
23								
24		Clean shot	Also used in Shot Shell					

*Clean Shot also used in Shot Shell



usable



unusable

Shooters World Rifle Powders

	A	B	C	D	E	F	G	H	I	J	K
1	CALIBERS	Buffalo Rifle*	SOCOM	Blackout	AR-Plus	Tactical Rifle	Match Rifle	Precision	Long Rifle	SW 4350	BMG
2	22 Hornet										
3	204 Ruger										
4	22-250 Remington										
5	222 Remington										
6	223 Remington										
7	6mm BR										
8	243 Winchester										
9	6mm Creedmoor										
10	6mm Remington										
11	6.5 Grendel										
12	25-06 Remington										
13	260 Remington										
14	264 Winchester Magnum										
15	6.5 Creedmoor										
16	6.8 SPC										
17	270 Winchester										
18	7mm Remington Mag.										
19	7mm-08 Remington										
20	300 AAC Blackout										
21	30 Carbine										
22	30 Remington AR										
23	30-30 Winchester										
24	308 Winchester										
25	7.62x39										
26	7.62x51 NATO										
27	30-40 Krag										
28	300 Savage										
29	7.62x54R										
30	30-06 Springfield										
31	300 Winchester Mag.										
32	303 British										
33	8mm Mauser (8x57)										
34	338 Federal										
35	338 Winchester Magnum										
36	338 Lapua Magnum										
37	338 Norma Magnum										
38	9.3x 62										
39	350 Legend										
40	375 Stalker										
41	375 Holland & Holland										
42	38-55 Winchester										
43	40-65										
44	45-70 Government										
45	5.56mm NATO										
46	450 Bushmaster										
47	458 SOCOM										
48	50 BMG										
49											
50											
51	*Buffalo Rifle may be used to make reduced loads in virtually every caliber.										
52	*Guidelines for reduced loads are currently being generated.										

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*Guidelines for reduced loads are currently being generated.



usable



unusable

INTRODUCTION

The Shooters World Reloading Guide for center fire ammunition was created as a manual for reloading of Shooters World branded LOVEX® smokeless propellants manufactured by EXPLOSIA® Company. These reloading propellants were specially selected to cover usage in all commonly loaded calibers.

POWDER INFORMATION

Shooters World provides two basic types of reloading powders – single base and double base powders. The powders are manufactured in the forms of flake, disc, tubular and spherical particles. Propellants also vary by density; high density propellants for rifle applications, low density propellants for pistol and shot shell applications.

SINGLE BASE POWDERS

Nitrocellulose is the main component (90 - 98 %) of single base powders. Additives such as stabilizers, burn rate modifiers, and muzzle-flash reducing agents are used as well. Most single base propellants produced by Explosia® are surface coated to achieve the progressive burning.

Rifle single base powders: **Precision, SW4350, Long Rifle, & S071**

DOUBLE BASE POWDERS

In addition to nitrocellulose, double base powders also contain nitroglycerin (8 - 23 %) as an energetic modifier. These powders contain a small percentage of stabilizers or other additives similar to the single base powders. Double base powders are normally of higher energetic value than single base powders and their ballistic performance is normally better. Progressive burn is achieved by placing burn rate modifiers in a gradient fashion within the propellant grains.

Shotgun double base powder: **Sparta, Clean Shot**

Handgun double base powders: **Clean Shot, Ultimate Pistol, Auto Pistol, Major Pistol, Heavy Pistol**

Rifle double base powders: **Buffalo, Blackout, Tactical Rifle, AR Plus, Match Rifle**

Shooters World and LOVEX® propellants are manufactured by Explosia® Company in Pardubice-Semtín, of the Czech Republic. Shooters World propellants are supported with SAAMI reload data. Alternatively, Lovex branded propellants are supported by European CIP reload data. Contact details of our customer service and the list of Shooters World distributors can be found at www.shootersworldpowder.com where this guide can also be downloaded.

POWDER DESCRIPTION

HANDGUN / SHOTGUN POWDER

Clean Shot

Clean Shot smokeless propellant has become a strong favorite of competitive pistol shooters in America. Its consistency of ignition, efficiency, virtual lack of residue, ease of loading, low smoke, consistency of velocity and accuracy have all been witnessed by top competitors.



Part of the secret to the success of Clean Shot is its particle size. One of the main controlling attributes of cleanliness and low residue is the ability of an individual propellant grain to completely burn. Pressure and time are required to burn through nitrocellulose grains. Thus, the individual grains of Clean Shot are among the smallest in the industry. The small size of the grain affords for complete burn with even challenging loads, such as with light bullets, low velocity, or voluminous cases.

Another factor that has a large effect upon accuracy is a propellant's ability to fill the case, while approaching peak pressure. The density of Clean Shot is approximately 0.65 grams/cc. Its fast burn rate, small particle size and low density contribute to a winning combination in IPSC, IDPA, Cowboy Action, and other pistol competitions.

Clean Shot was given its name by Ken Johnson. A cast-bullet shooter, he'd run the same 230 grain cast lead and lubricant load in his .45 Auto 1911 for years. In those times, fast-burning propellants were used. The smoky smut at the end of the slide after a session of firing, was explained by experts as a byproduct of the cast bullet lubricant (bees wax and Alox).

However, when Shooters World was formed, the first propellant we imported was Clean Shot. It wasn't long before Ken got the opportunity to try out this new powder in his .45 Auto 1911. Upon switching to Clean Shot from the other powders, that smoky smut at the end of the slide was absent. Small, unburned particles were not found in the barrel and in the magazine well. Even the feed ramp remained shiny, and appeared un-fired. Thus, "Clean Shot" was born.

If you're looking for low charge weights, excellent accuracy, a clean-running gun, and consistently dropped charge weights, then Clean Shot is the logical choice.

The density of Clean Shot is approximately 0.65 grams/cc. It contains a level of flash suppressant, which aids in visual comfort to the shooter. Its spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.

Under the Lovex brand, this propellant is referred to as D032.

HANDGUN POWDERS

Ultimate Pistol

This pistol propellant has no reloading powder exact equivalent. It is faster in burn rate than Accurate® No.5, and slower in burn rate than Accurate® No.2. It is comparable in burn rate to CFE Pistol and Auto Comp, but it has superior consistency in charge weight drops through a volumetric charger. This fact makes Ultimate Pistol a logical choice for competitive shooters, where consistent velocities through a compensated pistol are required to win.



From a competition standpoint, the burn rate modifier of Ultimate Pistol is incorporated within the propellant grain, and will provide more reliable ignition and consistency in velocity, than other propellants of this burn rate. Its flash suppressant prevents blinding fireballs in low-light conditions, aiding to shooters comfort and rapid re-acquisition of sight picture and target.

Each lot of Ultimate Pistol is designed, tested, and certified to work with BOTH lead-free and standard lead styphnate primers. Lead-free primers are notoriously poor at igniting even standard propellants. Thus, this propellant has been designed to ignite even under the most trying of combinations. This stringent requirement ensures that loaders will benefit from assurances of reliable ignition.

It is perhaps the most versatile of all pistol propellants across the .380 Auto, 9mm Luger, .40 Smith and Wesson, .38 Special, 38 Super, and .45 Automatic calibers.

The gas generation rate of this propellant should enable 9mm Luger, .380 Automatic, .45 Auto, .38 Super, and .40 S&W loaders to reach “self defense” velocities, while maintaining reasonable pressure levels. Thus we call this one propellant “Ultimate”, for its ability to meet the needs of both light loads, and “full-up” SAAMI-spec self-defense ammunition.

The density of Ultimate Pistol is approximately 0.92 grams/cc. It contains a level of flash suppressant, which aids in visual comfort to the shooter. It's spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.

HANDGUN POWDERS

Auto Pistol

For loaders interested in attaining standard or +P velocities in 9mm Luger, an optimized propellant for the .357 SIG, as well as correct energy levels for cycling carbines with subsonic loads, this propellant is a wise choice.

It will also perform well with difficult to cycle .380 Autos, .44 SPL, .45 Colt, heavy-bullet .40 S&W, and some light to moderate bullet .357 Magnum loads. It can take your .45 Auto loads to some amazing velocities. This propellant is a good alternative to Longshot, HS-6, Accurate No 5 and Ramshot Silhouette.



HANDGUN POWDERS

Major Pistol

Major Pistol is made as a high-intensity pistol propellant. The gas generation rate is appropriate for cartridges of the 9mm, 10mm Auto, .357 SIG, light-bullet magnum pistol loads, and other high intensity pistol cartridges. It is similar in burn speed to ACCURATE® No. 7, 2400 and Blue Dot.



It is especially good for short barrel magnum revolvers, where complete combustion, high velocity and low muzzle flash are desired. It is also possible to achieve extremely high velocities in 9mm Luger and custom tuned competition guns with Major Pistol.

For those seeking high intensity energy in common automatic pistol calibers, this propellant has excellent characteristics. The surface conditions of Major Pistol afford better than normal ignition, where other propellants are heavily deterred at the surface and therefore difficult to ignite.

That said, be advised that this propellant wants to run towards the upper pressure limits of a pistol cartridge, in order to fully combust. This is fully expected, and one of the trade-offs to its extremely high performance. You'd not tether a race-horse to a plow, nor should you seek meek pistol loads with this propellant. Despite this statement, we have successfully run subsonic .223 and .308 loads with this propellant. Even with low loading densities, this propellant is readily ignitable.

The density of Major Pistol is approximately 0.98 grams/cc. It contains a level of flash suppressant, which aids in visual comfort to the shooter. Its spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.

Under the Lovex brand, this propellant is referred to as D037.1.

HANDGUN POWDERS

Heavy Pistol

Ballistic results for this propellant show it appropriate for magnum pistol applications, .300 Blackout with supersonic lightweight projectiles and some other specialty ammunition. It is similar in burn speed to Accurate No 9®, and has similar application as Alliant 2400, Hodgdon H110 or Winchester 296.



The superior ignition of this propellant permits less-than-full loading density. Therefore, it is not necessary to load “full power” loads with this propellant in order to achieve safe results. Shooters World tests this propellant with standard pistol primers, as well as magnum pistol primers. To date, we have found no evidence that Heavy Pistol requires a magnum primer for reliable ignition.

In comparison to other magnum pistol propellants, we find Heavy Pistol exceptionally clean, accurate with either cast or jacketed projectiles, and exhibiting low muzzle flash.

The density of Heavy Pistol is approximately 0.98 grams/cc. It contains a level of flash suppressant, which aids in visual comfort to the shooter. It's spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.

Under the Lovex brand, this propellant is referred to as D037.2.

RIFLE POWDERS

Buffalo Rifle

Buffalo Rifle has a burn rate optimized for straight walled rifle cartridges, as well as reduced recoil/reduced energy loads in virtually all rifle applications. Chambers where the bullet diameter is virtually the same as the internal case diameter, such as .38-55 Winchester, .45-70 Gov't and numerous Schuetzen calibers, will benefit from Buffalo Rifle. This propellant has a burn rate slower than the venerable 4759, but can be used in similar applications.



The standard test load for this propellant is .30-06 Springfield, a 168 grain bullet, and ONLY 22 grains of propellant. This loading density is less than 50%! Yet this propellant burns extremely well in this condition.

Whether the loader desires to shoot cast lead or standard jacketed bullets, this propellant can greatly expand the utility of a hunting rifle. Now, a .30-06 can be used for plinking with the kids! Or a .243 Winchester for rabbit hunting! Safe, reduced loads can be economically loaded and enjoyed by the whole family. Testing, validation and publication of many reduced velocity rifle loads will be available in 2019.

The surface of this propellant holds no deterrent or burn rate modifier. Therefore, it ignites quite consistently with extremely low loading densities in standard rifle loads. This same ignition characteristic aids accuracy when used with cast lead bullets and long throated chambers.

Despite Buffalo Rifle being an extruded propellant, we have found good flow characteristics through a volumetric powder dump. The grain is narrow, and cut short. While some reloaders insist on weighing each powder charge, we did not find that extra time necessary when loading this propellant.

The density of Buffalo Rifle is approximately 0.87 grams/cc. It contains a level of flash suppressant.

Under the Lovex brand, this propellant is referred to as D060.

RIFLE POWDERS

SOCOM

SOCOM smokeless powder has no reloading propellant equivalent. It is faster in burn speed than ACCURATE 1680® and slower in burn speed than Winchester 296 or Hodgdon H110. The propellant gas generation rate is appropriate for .300 Blackout, 7.62x39, straight-walled rifle cartridges, and especially .458 SOCOM, where rapid transformation from powder to gas is desired.



Of recent findings, SOCOM is quite adept as a SINGLE propellant for BOTH .300 Blackout subsonic AND supersonic applications. It has lower residue than 1680 in subsonic applications, and outperforms 296 in supersonic applications.

Its performance with a 220 grain Sierra Match King for a subsonic load is perfect. But where it really shines is with a 150-grain FMJ...or hunting bullet. Where other propellants leave the .300 Blackout anemic at best with a 150 grain bullet, SOCOM can be used to approach the velocity of a .30-30 Winchester with the same barrel length! The energy level of a 150 grain bullet at 2150 fps from a 16" barrel is quite impressive, given this small cartridge.

Due to its burn rate and density, there's every indication is that this propellant will perform well with the larger magnum pistol family. Where "1680" is a bit too slow for the .500 S&W and like cartridges, the gas generation rate of SOCOM keeps up with the needs of the expansion ratios of these large magnum pistol bores and bullet sectional densities.

The Lovex brand does not carry this propellant. It is a proprietary burn speed manufactured for Southern Ballistic Research, and canistered by Shooters World.

The density of SOCOM is approximately 0.99 grams/cc. It contains a level of flash suppressant. Its spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.

RIFLE POWDERS

Blackout

Ballistic results for this propellant show it appropriate for both pistol and rifle cartridges that incorporate a near straight-walled cartridge case. The propellant gas generation rate is appropriate for .300 Blackout, 7.62x39, .30-30, .22 Hornet, as well as many lever-action pistol and rifle cartridges where rapid transformation from powder to gas is desired. It is similar in burn speed to Accurate 1680®.



This propellant is optimized for a broad range of heavy bullets for .300 Blackout, subsonic. Especially appropriate for 200+ grain bullets, the combination of charge weight, geometry and chemistry provide assurances of cycling in AR platforms.

Despite its optimization for heavy bullets, it can launch lighter supersonic bullets in the .300 Blackout. However, loaders generally find superior results with supersonic projectiles, using SOCOM.

A spherical propellant, it meters through charge plates consistently and will flow well in a high-speed loader. It contains a level of flash suppression, incorporated into the propellant.

Another advantage to Shooters World propellants is the long track record of these propellants. Our manufacturer has been making propellants since 1920.

Many of our propellants are sold throughout Europe under the Lovex brand. The Lovex published reloading manual is available on-line, and linked directly from the www.shootersworldpowders.com website home page. There, you can find additional data for such calibers as .222 Remington, .223 Remington, 7.62x 39 and others.

The density of Blackout is approximately 1 gram/cc. It contains a level of flash suppressant. Its spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.

Under the Lovex brand, this propellant is referred to as D063.

RIFLE POWDERS

AR-PLUS

With the popularity of the AR platform shooting 5.56mm and 7.62mm, we continue to hone our propellant selection for further optimization.

AR-Plus provides additional cleanliness and flash suppression for AR platforms chambered in popular bottlenecked cartridges.



Some folks like to plink with ultra-light loads in AR platforms. For that, we've found Tactical Rifle to perform admirably. It's got the "gas" to cycle the AR's at low charge weights. And, Tactical Rifle has been found to work with heavier bullets at higher velocities too.

But for those shooters who're looking to launch 55-62 grain bullets in 5.56mm, or the standard 147/150-grain bullets in 7.62mm, both at standard velocities, we wanted a further optimized solution. Those bullet combinations account for a great proportion of the ammunition consumed in 5.56mm and 7.62mm, so it stands to reason that we should offer a propellant optimized for them! This propellant also works well in 22-250 REM, .222 REM, .303 British, .30-30, and 7.62x54R.

As with our other spherical propellants, AR-Plus flows like water through a volumetric charger. Loaders will see no more than 1/10th of a grain of variation in charge weight from a powder drop. This has been tested in Dillon, RCBS, Lee, Hornady, Hollywood, and Lyman chargers.

Under the Lovex brand, this propellant is referred to as D073.4.

RIFLE POWDERS

Tactical Rifle

Tactical Rifle smokeless propellant has been a secret of OEM loaders for some time. It is the cleanest .223 and .308 spherical propellant on the market, and a superior alternative to H335 and BLC(2).

There's a wide band of performance capability with Tactical Rifle. .223 Remington ammunition can be loaded for plinking and cycling in an AR-15 with very light charges. Or, you could load it all the way up to meet standard NATO performance.

With only 18 grains of propellant in a .223 Remington or 5.56mm case, a shooter can push a 55 grain bullet at 2450 fps from a 20 inch barrel. Using an AR-15 in good condition, this load has been shown to reliably function, but exhibit reduced recoil, velocity and noise.

Specific load data has also been developed for 5.56mm NATO, when shooters are looking to take the performance of their hand loads to NATO specification velocity from NATO chambers. These published loads have been tested to military standards, fired in 5.56mm pressure barrels, and fall within the maximum average pressure permitted by NATO standards. But please note that we set charge to maximum pressure, and not specified velocity. This way, shooters will understand the advised maximum charge weight, beyond which we suggest you not pass. When loading to upper NATO pressures or velocities, we surely suggest the use of NATO brass, NATO primers, and the use of NATO loading methods.

While Tactical Rifle is optimized for 55 grain .223 Remington and 5.56mm, and 147/150 grain .308 Winchester and 7.62mm, it also provides sub-minute accuracy with match loads we've evaluated. Using as-received/unmolested Winchester .308 brass, Winchester large rifle primers, and a simple load of 42.5 grains of Tactical Rifle with a 168-grain Sierra Match King seated to 2.800", we fired a 10-round sub minute group at 200 yards. Simple, yet effective.

It is extremely low in residue, muzzle smoke, and is flash suppressed. If you're shooting an AR-15 or AR-10, this propellant is customized for your system.

The propellant flows like water through a volumetric charger. Handloaders will see no more than +/- 1/10th of a grain of variation in charge weight from a powder drop. This has been tested in Dillon, RCBS, Lee, Hornady, Hollywood, and Lyman chargers.

The density of Tactical Rifle is approximately 1.0 gram/cc. It contains a level of flash suppressant. Its spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.



RIFLE POWDERS

Match Rifle

Match Rifle is an excellent propellant for long range shooting. Shot with a 77 grain Sierra Match King, in a 5.56mm chamber it launches bullets beyond 2800 fps from a 20" AR-15 barrel. That velocity capability makes Match Rifle a natural fit for Service Rifle and CMP competitions. Many shooters over the years have found favor with both the accuracy and velocity performance of this powder.



Match Rifle is highly versatile, and has shown exceptional accuracy in .223 Remington, 5.56mm, and .308 Winchester. It is similar in burn speed to Accurate® 2520, CFE™ 223, Reloader®15 and IMR 4064. It holds the broadest utility across all moderate rifle propellants.

Should shooters wish to build a low pressure 150 FMJ-BT load dedicated to M-1 Garand shooting, a 46.5 grain charge of Match Rifle will provide good functioning, and 2720 feet per second in velocity. Meanwhile, the pressure with this load is only about 45,000 pounds per square inch.

The propellant gas generation rate is appropriate for cartridges of the light to heavy sectional density .223 Remington and .308 Winchester. It can load the 55 grain, through 77 and 80 grain 5.56mm. It loads the 150, 168 and 175 grain .308 Winchester, and loads all .30-30 combinations. It works in .30-06, in 7mm-08, 6mm BR, 6mm PPC, .204 Ruger, and similar cartridges.

Another advantage to Shooters World propellants is the long track record of these propellants. Our manufacturer has been making propellants since 1920.

Many of our propellants are sold throughout Europe under the Lovex brand. The Lovex published reloading manual is available on-line, and linked directly from the www.shootersworldpowders.com website home page. There, you can find additional data for such calibers as .222 Remington, .22-250, several European calibers, and even 7mm Remington Magnum!

The burn rate and geometry of this propellant yields low residue, and ample port pressure to cycle AR, M1, M1A, G3 and G36 systems.

The density of Match Rifle is approximately 1 gram/cc. It contains a level of flash suppressant. Its spherical geometry assures highly consistent powder drops, when making rounds on a progressive loader.

Under the Lovex brand, this propellant is referred to as D073.6.

RIFLE POWDERS

Precision

This propellant has a burn rate and temperature sensitivity very similar to Hodgdon® VARGET. These characteristics and propellant density closely track with the same characteristics of VARGET.



However, our testing revealed that velocity standard deviation at both ambient and extreme temperatures out-performed that of VARGET. Those in the long-range game demand low velocity standard deviation, especially when they're chasing group sizes beyond 1,000 yards. Precision's ignition characteristics, which contribute to low velocity standard deviation, should benefit those seeking superior accuracy.

In our tests from both a 6.5 Creedmoor and a .308 Winchester, Precision outperformed Varget in accuracy. An example of .308 results:

.308 Win	Group 1	Group 2	Group 3	Group 4	Group 5	Average, MOA
Varget	0.493	1.063	0.793	1.372	0.445	0.8332
Precision	0.603	0.605	1.018	0.713	1.06	0.7998

Despite Precision being an extruded propellant, we have found good flow characteristics through a volumetric powder dump. The grain is narrow, and cut short. While some reloaders insist on weighing each powder charge, we did not find that extra time necessary when loading for accuracy with this propellant.

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The density of Precision Rifle is approximately 0.9 grams/cc. It contains a level of flash suppressant. Its extruded geometry is of a narrow diameter, and cut short. Therefore, its drop consistency through a volumetric charger is quite consistent for an extruded propellant.

Under the Lovex brand, this propellant is referred to as S062.

RIFLE POWDERS

Long Rifle

Long Rifle is optimized for the 6.5 Creedmoor. Whether with light-weight, moderate or heavy bullets loaded in this cartridge, Long Rifle yields high loading densities and optimized velocities. If you seek accuracy, one of the keys is to find a propellant that can “fill the case and seek maximum velocity”.



Folks often ask us for alternatives to H4350, which is the fastest of the 4350 derivatives on the market. Quite simply, Long Rifle is our alternative to H4350. It is only slightly faster than H4350.

This propellant has a burn rate optimized for 6.5 Creedmoor, .260 Remington, and .30-06 Springfield. Our initial evaluation in the .300 Winchester Magnum also proves its ability to meet 2900 feet per second with a 190 grain bullet.

Our accuracy testing revealed no group over $\frac{7}{8}$ MOA, with many groups $\frac{1}{2}$ MOA or better. We have received numerous reports of Long Rifle's ability to approach the elusive 1-hole group. And these reports are received often enough that it no longer surprises us.

Despite Long Rifle being an extruded propellant, we have found good flow characteristics through a volumetric powder dump. The grain is narrow, and cut short. While some reloaders insist on weighing each powder charge, we did not find that extra time necessary when loading for accuracy with this propellant.

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The density of Long Rifle is approximately 0.9 grams/cc. It contains a level of flash suppressant. Its extruded geometry is of a narrow diameter, and cut short. Therefore, its drop consistency through a volumetric charger is quite consistent for an extruded propellant.

Under the Lovex brand, this propellant is referred to as S065.

RIFLE POWDERS

SW4350

SW4350 is the slowest of all the 4350 derivatives. As such, it has broad capabilities in moderate calibers where other 4350 derivatives cannot reach 100% loading density. It also has enhanced capabilities in larger magnum calibers, where other 4350 derivatives cannot reach.



If you seek accuracy, one of the keys is to find a propellant that can “fill the case and seek maximum velocity”. Several shooters have found this relationship to be true with SW4350, and are impressed with its performance. But please understand, SW4350 is not exactly the same propellant as H4350. Ranked in fastest to slowest of the 4350 derivatives: H4350, IMR4350, Accurate 4350, SW4350.

SW4350 has tremendous capabilities across virtually all long-range class and magnum class centerfire rifle ammunition.

Despite SW4350 being an extruded propellant, we have found good flow characteristics through a volumetric powder dump. The grain is narrow, and cut short. While some reloaders insist on weighing each powder charge, we did not find that extra time necessary when loading for accuracy with this propellant.

Another advantage to Shooters World propellants is the long track record of these propellants. Our manufacturer has been making propellants since 1920.

In addition to Shooters World reload data directly accessible from our home page, many of our propellants are sold throughout Europe under the Lovex brand. The Lovex published reloading manual is available on-line, and also linked directly from the www.shootersworldpowders.com website home page. There, you can find additional data for such calibers as 7mm Remington Magnum, .243 Winchester, .270 Winchester, 6.5x55 Swedish, 8mm Mauser, and even .338 Lapua Magnum.

The density of SW4350 is approximately 0.9 grams/cc. It contains a level of flash suppressant. Its extruded geometry is of a narrow diameter, and cut short. Therefore, its drop consistency through a volumetric charger is quite consistent for an extruded propellant.

Under the Lovex brand, this propellant is referred to as S070.

RIFLE POWDER

SW 50BMG

This propellant is optimized for .50 BMG. Its burn rate is slower than WC 860 (surplus, pull-down, or virgin) and faster than US 869. It is a spherical propellant, manufactured with flash suppressant, and has a density of approximately 1 gram/cc.

SW 50BMG is a canister form of Explosia bulk and Lovex canister propellant D100-01.

Ballistic load data for .50 BMG using European CIP test methods and standards for SW-50BMG are available at www.shootersworldsc.com.



BLACK POWDER SUBSTITUTE'S

MULTI PURPOSE BLACK

This powder if perfect for Hunters and Cowboy Action Shooters. For use in Muzzleloaders and Black Powder Cartridges, this powder is clean, powerful, dependable and accurate! Moisture resistant and virtually non-corrosive.



THE HUNTER

These Pellets give serious hunters and shooters the pre-measured Convenience they demand. Pellets have also proven exceptionally accurate, making them the choice for hunters and shooters. These are 50 caliber, 50 grain velocity equivalent pellets.



These black powder substitutes are made in America for Shooters World by American Pioneer Powder

Reloading data on-line: www.shootersworldpowder.com

Estimated Internal ballistic computation of different calibers / ammunition / powder combinations can be performed with **QuickLOAD software** (author Hartmut Broemel, Babenhausen, Germany). Shooters World LLC does not warrant the safety of QuickLOAD maximum loads, but does recognize the QuickLOAD software tool as a good estimator of starting loads and theoretical ballistic output.

As with any reloading endeavor, the elimination of risk should be foremost on the loaders mind. To that end, loaders should gradually increase charge weight from the starting load. Watch for any signs of pressure, and consider any pressure warning signs as a potential maximum load.

SAFETY AND HEALTH PRECAUTIONS

- ✗ DO NOT SMOKE WHERE POWDER IS STORED AND WHEN RELOADING.
- ✗ KEEP POWDER AWAY FROM ELECTRICAL MACHINERY, THAT COULD PRODUCE SPARKS AND KEEP IT AWAY FROM OTHER COMBUSTIBLE MATERIALS OR FLAMMABLE LIQUIDS.
- ✗ STORE IN A COOL, DARK AND DRY PLACE. STORAGE CABINETS SHOULD BE SELF VENTING, ALLOWING COMBUSTIBLE GASES TO ESCAPE AND (IF POSSIBLE) SHOULD BE CONSTRUCTED OF INSULATING MATERIALS TO PROTECT POWDERS FROM HEAT.
- ✗ KEEP POWDER OUT OF REACH OF CHILDREN.
- ✗ DO NOT MIX POWDERS OF DIFFERENT KINDS.
- ✗ POUR OUT ONLY THE AMOUNT OF POWDER NEEDED FOR IMMEDIATE WORK.
- ✗ CHECK THE POWDER MEASURE EACH TIME IT IS USED. MAKE SURE THE SETTINGS HAVE NOT BEEN ACCIDENTALLY CHANGED. CHECK-WEIGHT "THROWN CHARGES" FREQUENTLY.
- ✗ CLEAN UP SPILLED POWDER. USE A BRUSH AND DUSTPAN. DO NOT USE A VACUUM CLEANER.
- ✗ DO NOT REPACKAGE. STORE POWDER ONLY IN ITS ORIGINAL CONTAINERS. DO NOT USE THE CONTAINERS TO STORE OTHER POWDERS AND MATERIALS OR FOR OTHER PURPOSE.
- ✗ DO NOT KEEP OLD OR SALVAGED POWDERS. CHECK OLD POWDERS FOR DETERIORATION REGULARLY.
- ✗ OBEY ALL REGULATIONS AND LEGISLATION REGARDING QUANTITY AND METHODS OF STORING VALID IN YOUR COUNTRY. DO NOT STORE ALL YOUR POWDERS IN ONE PLACE. IF YOU CAN, MAINTAIN SEPARATE STORAGE LOCATIONS. MANY SMALL CONTAINERS ARE SAFER THAN ONE OR MORE LARGE CONTAINERS.
- ➔ Do not take internally. In case of ingestion cause vomiting by putting finger down throat. Call physician.
- ➔ Prevent contact with food, chewing and smoking material.
- ➔ Have adequate ventilation during handling.
- ➔ Do not carry powder in clothing.

!!! WARNING !!!

READ BEFORE USING

The task of reloading center fire metallic cartridges should only be undertaken by someone familiar with reloading procedures. One must observe all possible safety precautions and practices in accordance with proper handling of any explosive. We suggest you read up on reloading procedures. There are a number of excellent books on the subject.

After powder leaves our plant, we have no control over improper storage, handling, loading or using or on the condition of firearms or component use. For these reasons we make **no warranty** of merchantability or fitness for a particular use. All our loading data is intended solely for use in modern weapons.

Working up charges: Every rifle, pistol and shotgun is different. Variability in manufacturing of firearms and their ammunition components create varying pressures. Shooters World has provided recommending starting charges, which should be safe in every modern, correctly manufactured, and maintained firearm of the appropriate caliber. It is incumbent upon the reloader to progress in a safe manner. Always start a load development with the recommended starting propellant charge. Upon working up the load to higher pressures, never exceed the published recommended maximum charge weight. Variation from the published loading length can and will create dangerous pressures. Watch for any signs of excessive pressure (difficult extraction, flattened or pierced primers, unusual recoil), and immediately STOP shooting if any high pressure signs are witnessed.

**ALWAYS START AT THE SUGGESTED
MINIMUM STARTING CHARGE
AND NEVER EXCEED THE LOADS
LISTED IN THIS PUBLICATION**

CLEAN SHOT D032-03 SHOT SHELL RELOAD DATA**D032 reload data can also be found in the Lovex reload guide**

2.75" Hull	Primer	Powder	Mec Bushing	P/W Bushing	Wad	Shot	P/W Bushing	Pressure (Psi)	Velocity
Winchester AA	Rem 209	17.3 gr	21	E1	WAA12	8-1 1/8 oz	6	8954	1177
Winchester AA	Rem 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	10281	1214
Winchester AA	Win 209	17.3 gr	21	E1	WAA12	8-1 1/8 oz	6	8849	1165
Winchester AA	Win 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	10310	1202
Remington STS	Rem 209	17.3 gr	21	E1	Fed 12S3	8-1 1/8 oz	6	8850	1140
Remington STS	Rem 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 Oz	6	10148	1204
Remington STS	Rem 209	17.3 gr	21	E1	WAA12	8-1 1/8 oz	6	6610	1154
Remington STS	Rem 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	8854	1201
Remington STS	Win 209	17.3 gr	21	E1	Fed 12S3	8-1 1/8 oz	6	8810	1133
Remington STS	Win 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 oz	6	9990	1193
Remington STS	Win 209	17.3 gr	21	E1	WAA12	8-1 1/8 oz	6	6720	1149
Remington STS	Win 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	8810	1211
Remington STS	Rem 209	21.6 gr	27	G	Fed 12S3	8-1 1/8 oz	6	10840	1245
Remington STS	Rem 209	21.6 gr	27	G	WAA12	8-1 1/8 oz	6	9943	1248
Fiocchi	Rem 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 oz	6	5358	1149
Fiocchi	Win 209	19.5 gr	24	F	Fed 12S3	8-1 1/8 oz	6	6781	1186
Fiocchi	Win 209	21.6 gr	27	G	Fed 12S3	8-1 1/8 oz	6	8995	1265
Federal	Win 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 oz	6	6265	1133
Federal	Win 209	19.5 gr	24	F	Fed 12S3	8-1 1/8 oz	6	7038	1176

CLEAN SHOT D032-03 PISTOL RELOAD DATA
D032 reload data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.380 Auto	Jagemann	75 gr Sinterfire FP	0.95	4.0	862	4.5	1000	20,196
	Jagemann	90 gr Hornady XTP	0.965	2.3	750	3.0	977	21,400
	Jagemann	95 gr Sierra FMJ	0.945	2.6	761	3.0	932	21,375
9mm Luger	Winchester	100 gr Sinterfire FN	1.14	3.8	1020	5.1	1224	33,500
	Jagemann	115 gr Berry RN	1.16	3.6	951	4.7	1136	34,720
	Winchester	115 gr Winchester FMJ	1.16	4.0	978	4.7	1130	34,680
	Jagemann	115 gr Hornady XTP	1.075	4.0	1005	4.5	1090	35,000
	Jagemann	124 gr Nosler JHP	1.1	3.2	900	4.4	1063	34,985
	Jagemann	124 gr Hornady XTP	1.06	3.4	915	4.2	1064	33,420
	Jagemann	147 gr Hornady XTP	1.1	NA	NA	3.7	910	33,500
.38 SPL	Jagemann	110 gr Sierra JHP	1.455	3.7	525	5.0	1158	17,000
	Jagemann	125 gr Hornady XTP	1.455	3.0	660	4.6	1035	17,000
	Jagemann	125 gr Speer TMJ	1.455	2.6	636	4.5	1052	16,495
	Jagemann	140 gr Hornady XTP	1.455	2.9	545	4.3	937	17,000
	Jagemann	140 gr Sierra JHP	1.455	2.9	501	4.3	921	16,876
	Jagemann	148 gr Berry Wad-cutter	1.15	NA	NA	2.7	752	17000
	Jagemann	158 gr Sierra JSP	1.455	2.9	546	3.8	786	16200
	Jagemann	158 gr Hornady XTP	1.455	2.9	568	3.8	740	16607
	Jagemann	158 gr Nosler JHP	1.455	3.0	591	3.8	839	16748

CLEAN SHOT D032-03 PISTOL RELOAD DATA**D032 reload data can also be found in the Lovex reload guide**

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.40 S&W	Remington	135 gr Sierra JHP	1.125	6.0	1132	6.6	1225	34,400
	Remington	150 gr Sierra JHP	1.125	5.5	1012	6.1	1119	34,722
	Remington	155 gr Hornady XTP	1.125	5.2	1000	5.8	1100	34,706
	Remington	180 gr Sierra JHP	1.125	4.4	842	4.8	934	35,000
	Remington	180 gr Extreme	1.125	4.4	804	5.3	960	34,400
.45 Auto	Winchester	155 gr Sinterfire FP	1.21	5.0	935	5.9	1100	20,055
	Jagemann	185 gr Zero JHP	1.21	4.8	784	6.3	1029	21,000
	Jagemann	185 gr Hornady XTP	1.21	4.5	816	5.8	1020	19,950
	Jagemann	200 gr Hornady XTP	1.21	5.0	825	5.6	988	20,630
	Winchester	230 gr Winchester RN	1.2	4.5	747	5.3	899	19,900
	Jagemann	230 gr Hornady XTP	1.21	4.3	724	5.1	870	20,530
	Jagemann	230 gr Nosler FMJ	1.2	4.0	720	5.1	870	19,500
.45 Colt	Jagemann	200 gr LC SWC	1.6	4.0	562	7.7	1048	13,357
	Jagemann	300 gr LC Saeco FP Md# 454	1.6	4.0	528	6.4	859	13,833

ULTIMATE PISTOL D036-07 RELOAD DATA D036.7 reload data is not published by Lovex

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.380 Auto	Jagemann	90 grain Sierra JHP	0.965	3.8	872	4.3	1002	20,679
	Jagemann	90 grain Hornady XTP	0.965	3.7	870	4.2	1031	19,900
	Jagemann	95 grain Sierra FMJ	0.965	3.3	835	4.0	939	20,377
	Jagemann	100 grain Berry RN	0.960	3.3	802	3.8	949	21,246
9mm Luger	Jagemann	115 grain Hornady XTP	1.075	4.7	975	5.7	1188	34,300
	Jagemann	115 gr LC RNFP 10 Saeco	1.077	4.2	943	5.1	1183	34,740
	Jagemann	115 grain Winchester	1.160	4.6	927	6.4	1237	34,500
	Jagemann	122 gr LC RNFP 10 Saeco	1.040	4.3	1009	4.7	1094	32,948
	Jagemann	124 grain Nosler JHP	1.085	4.3	878	5.6	1145	34,870
	Jagemann	124 grain Hornady XTP	1.060	4.3	902	5.5	1163	34,344
	Jagemann	147 gr LC RNFP 10 Saeco	1.110	3.7	872	4.2	966	34,470
	Jagemann	147 grain Hornady XTP	1.100	n/a	n/a	4.5	995	34,269
9mm +P	Jagemann	124 gr Dead Nuts HP	1.145	4.3	900	5.7	1161	37,144
.357 Magnum	Jagemann	110 gr Sierra JHP	1.575	4	705	8.9	1505	34,351
.357 Magnum	Jagemann	125 gr Sierra JSP	1.575	4	670	8.6	1395	33,271
.357 Magnum	Jagemann	125 gr LC Acme coated	1.5	4	774	8.4	1421	34,411
.357 Magnum	Jagemann	135 gr Speer Gold Dot	1.6	4	644	8.1	1305	33,489
.357 Magnum	Jagemann	140 gr Sierra JHP	1.575	4	628	8.1	1308	34,350
.357 Magnum	Jagemann	158 gr Sierra JSP	1.575	4	631	7.5	1199	33,238
.357 Magnum	Jagemann	158 gr LC SWC	1.600	4	756	7.3	1220	33,130
.357 SIG	Jagemann	115 grain Hornady HAP	1.135	6.5	1126	8.3	1405	38,363
	Jagemann	115 grain X-treme HP	1.135	6.5	1131	8.3	1414	36,600
	Jagemann	115 grain Precision Delta	1.160	6.5	1135	8.6	1445	39,908
	Jagemann	124 grain Hornady XTP	1.135	6.5	1117	7.7	1335	38,300
	Jagemann	124 grain Berry's HHP	1.145	6.5	1105	8.2	1365	37,525
	Jagemann	147 grain Hornady XTP	1.140	5.0	888	6.7	1140	38,300
.38 SPL	Jagemann	110 grain Sierra JHP	1.450	4.0	645	6.8	1254	17,000
	Jagemann	125 grain Hornady XTP	1.455	4.0	460	6.3	1092	16,700
	Jagemann	135 grain Gold Dot	1.455	4.0	521	5.4	966	16,400
	Jagemann	140 grain Hornady XTP	1.455	4.0	665	5.6	990	16,672
	Jagemann	158 grain Hornady XTP	1.450	4.0	558	5.0	874	17,000
	Jagemann	158 grain Nosler JHP	1.450	4.0	601	5.4	961	16,699
38 Super Auto +P	Jagemann	124 gr Hornady RN	1.250	5.0	994	6.5	1269	36,015
	Jagemann	115 gr Hornady HAP	1.250	5.0	1041	7.0	1331	36,120
	Jagemann	124 gr Xtreme HP	1.250	5.0	1018	6.9	1280	36,085
	Jagemann	124 gr Berry Hybrid HP	1.250	5.0	982	6.9	1285	35,130

ULTIMATE PISTOL D036-07 RELOAD DATA D036.7 reload data is not published by Lovex

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.40 S&W	Jagemann	135 Sierra JHP	1.125	5.5	477	8.0	1303	32,300
	Jagemann	155 grain Hornady XTP	1.125	4.6	682	7.7	1232	31,800
	Jagemann	165 grain Sierra JHP	1.125	4.3	647	6.8	1139	33,900
	Jagemann	180 gr LC RNFP 10 Saeco	1.125	4.5	849	6.4	1068	32,400
	Jagemann	180 grain Sierra JHP	1.125	4.0	595	6.3	1049	33,500
	Jagemann	180 grain Hornady HAP	1.125	3.8	630	6.0	1027	31,800
	Jagemann	180 Hornady XTP	1.125	4.0	618	6.4	1081	34,700
	Jagemann	200 gr LC RN 10 Saeco	1.125	4.0	793	5.5	983	33,700
10mm Auto	Jagemann	155 grain Hornady XTP	1.260	8.1	1261	9.1	1346	36,138
	Jagemann	180 grain Hornady XTP	1.260	6.8	1097	7.8	1190	36,923
44 REM MAG carbine	Jagemann	180 gr Hornady XTP	1.600	8.0	1106	13.5	1698	32,935
44 REM MAG carbine	Jagemann	200 gr Hornady XTP	1.600	8.0	1090	13.0	1598	34,323
44 REM MAG carbine	Jagemann	220 gr Sierra FPI	1.600	8.0	1051	11.8	1444	32,313
44 REM MAG carbine	Jagemann	240 gr Nosler JHP	1.600	8.0	1057	11.3	1308	34,323
44 REM MAG carbine	Jagemann	240 gr Hornady XTP	1.600	8.0	1023	11.3	1362	35,000
44 REM MAG carbine	Jagemann	240 gr Sierra JHC	1.600	8.0	1056	11.1	1300	33,868
44 REM MAG carbine	Jagemann	300 gr Sierra JSP	1.740	8.0	895	10.5	1177	32,833
.45 Colt	Jagemann	200 gr LC SWC	1.6	5	552	10.5	1145	13801
	Jagemann	250 grain Hornady XTP	1.595	5.0	503	8.8	962	13,975
	Jagemann	300 gr LC Saeco FP Md# 454	1.600	5.0	452	8.0	851	13,968
	Jagemann	300 gr Hornady XTP	1.590	5.0	471	7.2	814	13,723
.45 Auto	Jagemann	185 grain Hornady XTP	1.210	4.5	552	8.6	1095	20,100
	Jagemann	185 grain LC SWC 10 Saeco	1.255	3.5	578	7.7	1118	18,900
	Jagemann	200 grain Hornady XTP	1.210	3.9	534	7.9	1025	20,618
	Jagemann	200 grain LC SWC 10 Saeco	1.255	3.7	636	7.2	1040	20,465
	Jagemann	225 grain LC RN 7 Saeco	1.210	4.2	510	6.8	945	19,700
	Jagemann	230 grain Hornady XTP	1.210	3.7	480	6.7	921	20,200
	Jagemann	230 grain Berry HP	1.210	3.7	448	7.2	940	21,000
	Jagemann	230 grain LC RN 10 Saeco	1.275	3.7	475	6.8	978	20,135
	Jagemann	230 grain Nosler FMJ	1.210	3.7	462	7.2	935	20,100

HANDGUN

AUTO PISTOL D036-03 RELOAD DATA								
D036 reload data can also be found in the Lovex reload guide								
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.380 Auto	Jagemann	90 gr Hornady XTP	0.965	3.5	710	5	1018	20,976
	Jagemann	90 gr Sierra JHP	0.965	3.7	710	5.3	1017	21,500
9mm Luger	Jagemann	115 gr FMJ	1.16	5	905	6.8	1216	34,956
	Jagemann	115 gr Xtreme FP	1.16	5.5	894	7	1139	33,909
	Jagemann	115 gr Berry	1.16	5	895	6.9	1181	34,319
	Jagemann	115 gr Hornady XTP	1.075	5	925	6.4	1189	34,943
	Jagemann	124 gr Nosler JHP	1.085	4.8	890	6	1110	33,850
	Jagemann	124 gr Hornady XTP	1.06	4.8	916	5.7	1079	34,739
	Jagemann	147 gr Hornady XTP	1.1	4	752	5.2	969	35,000
.38 SPL	Jagemann	110 gr Sierra JHP	1.455	5	528	8.3	1232	16,874
	Jagemann	125 gr Hornady XTP	1.455	4.8	710	7.5	1152	17,000
	Jagemann	140 gr Hornady XTP	1.455	5	697	6.9	1014	16,624
	Jagemann	158 gr Nosler JHP	1.455	4.5	525	6.7	1030	17,000
	Jagemann	158 gr Hornady XTP	1.455	4.5	597	6.4	942	17,000
.357 Magnum	Jagemann	110 gr Sierra JHP	1.575	5.5	805	10.9	1560	34,780
.357 Magnum	Jagemann	125 gr Sierra JSP	1.575	5.5	781	12.3	1625	31,883
.357 Magnum	Jagemann	125 gr LC Acme coated	1.5	5.5	866	11	1553	32,097
.357 Magnum	Jagemann	135 gr Speer Gold Dot	1.6	5.5	772	10.7	1456	34,080
.357 Magnum	Jagemann	140 gr Sierra JHP	1.575	5.5	739	10.2	1384	33,819
.357 Magnum	Jagemann	158 gr Sierra JHC	1.575	5	643	9.5	1277	33,440
.38 Super	Jagemann	124 gr Hornady RN	1.250	6	949	8.3	1324	36,335
.38 Super	Jagemann	115 gr Hornady HAP	1.250	6.5	1032	8.8	1400	35,685
.38 Super	Jagemann	124 gr Xtreme HP	1.250	6	920	8.7	1325	36,263

AUTO PISTOL D036-03 RELOAD DATA

D036 reload data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.38 SPL +P	Starline	110 gr Sierra JHP	1.455	NA	NA	9	1348	19,683
.38 SPL +P	Starline	125 gr Hornady XTP	1.455	NA	NA	8.3	1244	20,000
.38 SPL +P	Starline	140 gr Hornady XTP	1.455	NA	NA	7.7	1134	19,553
.38 SPL +P	Starline	158 gr Hornady XTP	1.455	NA	NA	7	1030	20,000
.357 Sig	Jagemann	124 gr Hornady XTP	1.14	8	1169	9.4	1374	37,245
.357 Sig	Jagemann	147 gr Hornady XTP	1.14	7	1030	8.1	1192	36,931
.40 S&W	Jagemann	150 gr Sierra JHP	1.125	7	920	9	1201	33,380
.40 S&W	Jagemann	155 gr Hornady XTP	1.125	6.9	963	8.3	1159	32,613
.40 S&W	Jagemann	165 gr Sierra JHP	1.125	6.5	964	7.7	1123	34,551
44 Remington Magnum	Jagemann	180 gr Xtreme FP	1.125	6.5	875	8.4	1130	34,812
44 REM MAG carbine	Jagemann	180 gr Hornady XTP	1.600	8	939	16.3	1800	34,192
44 REM MAG carbine	Jagemann	200 gr Hornady XTP	1.600	8	868	15.7	1697	34,965
44 REM MAG carbine	Jagemann	220 gr Sierra FPJ	1.600	8	902	14.8	1548	34,075
44 REM MAG carbine	Jagemann	240 gr Nosler JHP	1.600	8	869	14	1374	34,445
44 REM MAG carbine	Jagemann	240 gr Hornady XTP	1.600	8	849	14	1484	34,490
44 REM MAG carbine	Jagemann	240 gr Sierra JHC	1.600	8	888	13.5	1392	34,090
44 REM MAG carbine	Jagemann	300 gr Sierra JSP	1.740	8	704	13	1283	34,445
44 REM MAG carbine	Jagemann	300 gr Hornady XTP	1.600	8	758	12	1233	35,000
.45 Auto	Jagemann	200 gr Hornady XTP	1.21	7.5	779	10	1080	20,517
.45 Auto	Jagemann	230 gr Hornady XTP	1.21	6	675	8.4	950	20,182
.45 Auto	Jagemann	230 gr Nosler FMJ	1.21	6.5	740	9.3	1004	21,000
.45 Auto	Jagemann	230 gr Winchester FMJ	1.25	6.5	715	9	973	19,633

MAJOR PISTOL, D037-01 RELOAD DATA

D037.1 reload data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
9mm Luger	Jagemann	115 gr Copper Solid HP	1.14	5.7	999	6.6	1136	34,912
	Jagemann	115 gr Hornady HAP	1.05	7.1	1050	7.8	1230	35,000
	Jagemann	124 gr Copper Solid HP (MSSS)	1.14	5.3	898	6	1019	34,300
	Jagemann	124 gr Hornady XTP	1.1	5.6	896	7.3	1149	34,400
	Jagemann	124 gr Berry Hybrid HP	1.02	5.4	879	7.4	1172	33,700
	Jagemann	124 gr Hornady FMJ	1.1	5.4	862	7.4	1160	33,700
.357 REM Mag	Jagemann	110 gr Sierra JHP	1.57	7	934	12.8	1614	34,564
.357 REM Mag	Jagemann	125 gr Sierra JSP	1.575	6.5	800	12.1	1500	34,960
.357 REM Mag	Jagemann	125 gr LC Acme coated	1.5	6.5	777	11.7	1514	34,523
.357 REM Mag	Jagemann	135 gr Speer Gold Dot	1.6	6	770	11.1	1405	34,335
.357 REM Mag	Jagemann	140 gr Sierra JHP	1.575	6	721	11	1374	33,240
.357 REM Mag	Jagemann	158 gr Sierra JHC	1.575	6	570	10.7	1305	34,303
.40 S&W	Jagemann	150 gr Sierra JHP	1.125	9.1	985	11.4	1244	31,600
	Jagemann	165 gr Sierra JHP	1.125	7.6	955	10.4	1160	33,600
	Jagemann	180 gr Hornady XTP	1.125	7.4	818	9.5	1136	34,400
	Jagemann	180 gr Sierra JHP	1.125	6.9	877	9.8	1122	35,000
	Jagemann	200 gr Hornady XTP	1.125	6.5	740	8.5	1012	33,600
10mm Auto	Jagemann	150 gr Sierra JHP	1.26	8.5	790	13.2	1415	37,073
	Jagemann	165 gr Sierra JHP	1.26	8.2	724	12.2	1311	36,700
	Jagemann	165 gr Zero HP	1.26	8	687	12	1292	36,286
	Jagemann	180 gr Sierra JHP	1.26	7.5	690	11.1	1213	37,185
	Jagemann	180 gr Hornady XTP	1.26	7.5	700	11.4	1230	36,928
	Jagemann	180 gr Extreme HP	1.26	7.5	744	11.1	1232	36,941
	Jagemann	180 gr Berry Hybrid HP	1.26	7.5	746	11.8	1268	37,500
	Jagemann	200 gr Hornady XTP	1.26	7	643	9.8	1085	37,096
.44 REM Mag	Jagemann	180 gr Hornady XTP	1.6	12	1211	19.3	1631	32,700
44 REM MAG carbine	Jagemann	180 gr Sierra JHC	1.600	14	1396	21.4	2000	34,865
44 REM MAG carbine	Jagemann	220 gr Sierra FPI	1.600	14	1342	18.6	1716	33,750
44 REM MAG carbine	Jagemann	240 gr Nosler JHP	1.600	13	1238	17.5	1541	34,935
44 REM MAG carbine	Jagemann	240 gr Hornady XTP	1.600	13	1226	17.2	1575	34,745
44 REM MAG carbine	Jagemann	240 gr Sierra JHC	1.600	13	1229	17.4	1579	34,480
.45 Auto	Jagemann	160 gr Copper Solid HP (MSSS)	1.19	8.5	912	11.5	1191	20,500
	Jagemann	185 gr Copper Solid HP (MSSS)	1.19	8	905	9.6	1076	20,900

** MSSS = Mid South Shooters Supply

HEAVY PISTOL D037-02 RELOAD DATA

D037.2 reload data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.300 Blackout	Jagemann	125 gr Sierra MK	2.245	13.0	1842	14.2	2004	54,283
	Jagemann	140 gr Nosler HPBT	1.925	11.2	1735	13.2	1854	52,590
.357 Magnum	Jagemann	110 gr Sinterfire	1.590	10.0	1184	13.8	1564	33,345
	Jagemann	110 gr Sierra JHP	1.590	14.0	1465	15.9	1725	34,632
	Jagemann	125 gr Speer GDHP	1.590	12.0	1255	15.3	1692	34,800
	Jagemann	140 gr Hornady XTP	1.590	11.0	1180	14.0	1501	34,917
	Jagemann	158 gr Hornady XTP	1.580	10.0	1055	12.1	1296	32,726
	Jagemann	158 gr Nosler JHP	1.590	10.0	1078	12.2	1378	34,556
	Jagemann	158 gr Berry FN	1.590	10.0	998	12.9	1359	34,425
.44 REM MAG	Winchester	180 gr Hornady XTP	1.600	20.0	1392	23.3	1697	35,304
	Winchester	220 gr Sierra FPJ	1.600	17.9	1299	21.0	1529	35,675
	Winchester	240 gr Nosler JHP	1.600	15.5	1080	18.8	1406	35,920
	Winchester	300 gr Hornady XTP	1.600	12.7	978	14.9	1151	35,560
44 REM MAG carbine	Jagemann	180 gr Sierra JHC	1.600	14.0	1257	24.4	2092	35,000
44 REM MAG carbine	Jagemann	220 gr Sierra FPJ	1.600	13.0	1128	21.1	1785	32,835
44 REM MAG carbine	Jagemann	240 gr Nosler JHP	1.600	13.0	1094	19.9	1654	34,090
44 REM MAG carbine	Jagemann	240 gr Hornady XTP	1.600	13.0	1052	20.5	1699	33,770
44 REM MAG carbine	Jagemann	240 gr Sierra JHC	1.600	13.0	1047	20.8	1723	34,150
44 REM MAG carbine	Jagemann	300 gr Sierra JSP	1.740	13.0	954	18.6	1446	33,870

BUFFALO RIFLE D060-01 RELOAD DATA

D060 reload data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.38-55	Starline	255gr LC RNFP 10 Saeco	2.57	18	1266	24	1646	29600
.40-65	Starline	250 gr LC RNFP 10 Saeco	2.47	27	1594	31.8	1846	28000
.45-70	Starline	300 gr JHP Winchester	2.55	30	1476	38.5	1845	28,000
	Starline	300 gr LC RNFP 10 Saeco	2.55	30	1449	40.5	1902	27,300
	Starline	350 gr LC RNFP 7 Saeco	2.545	24	1160	30.5	1450	17,358
	Starline	405 gr LC RNFPHB 5 Saeco	2.56	24	1185	27	1317	17,390
	Starline	405 gr LC RNFP 10 Saeco	2.55	30	1425	34.5	1608	28,000
	Starline	500 gr LC RNFP 10 Saeco	2.55	22	1060	28.7	1368	27,460
5.56mm	WCC	55gr Hornady FMJ	2.245	18	2769	21	3130	
458 SOCOM	Starline	300 gr Sierra Pro Hunter	2.04	30	1410	37.1	1727	34505
	SBR	300 gr Barnes TTSX	2.25	30	1425	34.7	1636	34808
	SBR	350 gr SBR FMJ	2.25	30	1477	35.5	1596	35000
	Starline	450 gr SBR FMJ	2.25	28	1206	32	1378	35000
450 Bushmaster	Starline	300 gr Hornady XTP	2.1	30	1477	36.5	1821	38360

POWDER SBR - SOCOM 63-01
D063.1 reload data is not published by Lovex

Caliber	Case	Projectiles	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
300 Blackout	Jagemann	125gr Sierra HP	2.245	16	1784	21	2184	39970
	Jagemann	135 gr Hornady FTX	2.12	14	1524	21	2139	45800
	Jagemann	140 gr Nosler HPBT	1.94	14	1549	16.8	1835	37750
	Jagemann	150 gr Hornady FMJBT	2.22	15	1601	21	2158	54800
	Jagemann	208 gr Hornady HPBT	2.24			11	1075	19700
	Jagemann	220 gr Sierra MK	2.245	10	1013	14.4	1433	42245
458 SOCOM	SBR	300 gr Hornady JHP	2.02	32.4	1650	36	1857	33555
	Starline	300 gr Sierra Pro Hunter	2.04	30	1505	36	1811	34085
	SBR	300 gr Barnes TTSX	2.25	32.7	1674	36.4	1861	34943
	SBR	350 gr SBR FMJ	2.25	31.8	1565	35.4	1740	34368
	SBR	350 gr SBR JSP	2.12	30.7	1550	34.1	1730	34960
	Starline	450 gr SBR FMJ	2.25	26	1214	30	1431	34580
450 Bushmaster	Starline	200 gr Sierra FPJ	2.03	40	2295	45.7	2514	37461
	Starline	230 gr Sierra RN FMJ	2.13	38	2214	42.7	2366	38267
	Starline	240 gr Sierra JHC	2.02	35	1997	41.2	2265	38087
	Starline	240 gr Hornady XTP	2.1	35	1977	41.3	2229	37865
	Starline	250 gr Hornady XTP	2.03	35	1972	40.9	2220	38440
	Starline	300 gr Hornady XTP	2.1	30	1650	34.4	1884	37813

BLACKOUT D063-02 RELOAD DATA
D063 reload data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.300 Blackout	Jagemann	220 gr Sierra HPBT	2.050	n/a	n/a	10.5	1050	22,600
	Jagemann	208 Hornady A-MAX	2.210	n/a	n/a	10.2	1050	24,195
	Jagemann	150 gr Hornady FMJ	2.100	15.0	1460	18.0	1750	45,200
.44 REM MAG	Winchester	240 gr Nosler JHP	1.600	22.0	985	25.4	1138	26,800
	Winchester	300 Hornady XTP	1.595	15.0	680	19.5	881	24,600
.30-30 Winchester	Hornady	125 gr Sierra FN	2.425	28.0	2454	30.5	2661	40,925
	Hornady	150 gr Sierra FN	2.550	25.0	2148	27.4	2377	41,077
	Hornady	170 gr Speer HCFN	2.550	24.0	2040	25.9	2212	41,342
	Hornady	170 gr Sierra FN	2.550	24.0	2011	26.2	2193	40,669
.458 SOCOM	SBR	300 gr Barnes TTSX	2.25	35.1	1587	39.0	1767	34,128

AR PLUS D073-04 RELOAD DATA
D073.4 data can also be found in the Lovex Reloading Guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.222 Remington	Sellier and Bellot	50 gr FMJ	2.07	22.4	3149	23.9	3280	53,400
	Sellier and Bellot	50 gr SP	2.07	22.4	3149	23.9	3247	53,400
.22-250 Remington	Sellier and Bellot	55 gr FMJ	2.35	30.1	3214	34.7	3706	58,600
	Sellier and Bellot	55 gr SP	2.35	30.1	3182	34.0	3674	58,600
5.56mm	WCC	55 gr Hornady FMJ-BT	2.21	19.0	2555	26.5	3333	
5.56mm	WCC	60 gr Hornady Vmax	2.25	19.0	2481	25.8	3152	
5.56mm	WCC	60 gr Sierra HP	2.26	19.0	2532	24.0	3069	
5.56 mm	WCC	62 gr M855/SS109	2.26	19.0	2469	25.8	3148	
5.56mm	WCC	68 gr Hornady HPBT	2.25	19.0	2504	25.3	3071	
5.56mm	WCC	70 gr Nosler RDF	2.26	19.0	2450	24.9	2981	
5.56 mm	WCC	75 gr BTHP Hornady	2.26	19.0	2426	23.6	2822	
5.56mm	WCC	77 gr Sierra MK	2.26	19.0	2413	23.6	2783	
.30-30 Winchester	Sellier and Bellot	150 gr SP	2.52	29.3	2132	31.6	2329	45,700
.303 British	Sellier and Bellot	150 gr SP	2.86	40.9	2608	44.0	2706	52,200
	Sellier and Bellot	180 gr FMJ	3.05	38.6	2362	40.1	2444	52,200
308 Winchester	Jagemann	150 gr Sierra SBT	2.81	35	2586	43.3	2955	61,980
	Jagemann	150 gr Hornady FMJBT	2.75	35	2543	42.7	2924	61,493
	Jagemann	168 gr Hornady Amax	2.81	35	2520	41.2	2751	61,925
	Jagemann	168 gr Sierra MK	2.8	35	2517	40	2694	62,000
	Jagemann	175 gr Sierra MK	2.8	35	2461	39.5	2658	61,268
	Jagemann	180 gr Speer BTSP	2.81	35	2426	39	2616	60,700
7.62mm NATO	Fiocchi	147gr FMJ	2.8	42.5	2746	45	2926	
(22" barrel)	Fiocchi	168 gr Sierra MK	2.8	35	2341	41.5	2680	
7.62x54R	Sellier and Bellot	174 gr HPBT	3.035	45.5	2558	47.8	2657	56,200
	Sellier and Bellot	180 gr SP	2.875	44.8	2558	47.1	2624	55,700
	Sellier and Bellot	180 gr FMJ	2.95	44.8	2509	47.1	2640	56,500
9.3x62	Sellier and Bellot	285 gr SP	3.27	53.2	2224	56.3	2362	56,500
	Sellier and Bellot	286 gr Hornady SP	3.13	50.9	2230	54.8	2394	55,900

TACTICAL RIFLE D073-08 RELOAD DATA

D073.8 data is not published in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure, PSI
.204 Ruger	Norma	24gr Hornady NTX	2.26	26	3908	31.4	4563	56,940
	Norma	32gr Hornady V-max	2.26	24	3521	28.7	4088	56604
	Norma	40 gr Hornady V-max	2.26	23	3260	26.9	3732	56,910
	Norma	45 gr Hornady SP	2.26	22	3096	25.2	3461	56,670
.223 Remington	Remington	50 gr Sierra BK	2.26	22	3000	26	3471	54,932
	Remington	55 gr FMJ	2.245	17.5	2509	24.5	3241	54,699
	Remington	60 gr Hornady V-Max	2.245	17.5	2360	23.8	3097	54,643
	Remington	62 gr M855	2.245	17.5	2190	24.1	3035	54,405
	Remington	69 gr Sierra HPBT	2.245	18	2350	23	2936	53,994
6.5 Grendel	Starline	123 gr Sierra HPBT	2.26	22	1992	28.7	2532	50,814
	Starline	129 gr Hornady SST	2.26	22	1883	28.4	2449	51,559
	Starline	130 gr Sierra TMK	2.26	22	1948	28.4	2440	51,302
	Starline	130 gr Nosler Accubond	2.26	22	1864	28.2	2330	51,614
	Starline	140 grHornady ELD-M	2.26	22	1905	27.5	2242	49,199

TACTICAL RIFLE D073-08 RELOAD DATA								
D073.8 data is not published in the Lovex reload guide								
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure, PSI
6.8 REM SPC	Hornady	90 gr Sierra HP	2.26	25	2447	32	3008	54,225
	Hornady	110 gr Hornady BTHP	2.26	25	2380	29.3	2757	53,958
	Hornady	115 gr Sierra MK	2.26	25	2338	28.5	2661	55,000
.30-30 Winchester	Hornady	150 gr Sierra FN	2.550	28	2025	33.1	2410	41,115
.308 Winchester	Winchester	110 gr Speer SP	2.684	46	3075	51.1	3420	60,405
	Winchester	125 gr Sierra HP	2.81	44	2915	48.9	3241	61,225
	Winchester	130 gr Speer HP	2.688	44	2876	48.9	3198	61,402
	Winchester	147 gr FMJ	2.8	42	2710	46.7	3017	60,914
	Winchester	168 gr Sierra HPBT	2.81	39.5	2500	43	2724	61,754
5.56 mm	WCC	55gr Hornady FMJ	2.245	18	2440	27	3460	
	WCC	55 gr MSSS SPBT	2.21	18	2488	26.3	3425	
	WCC	55 gr MSSS FMJBT	2.22	18	2507	26.6	3440	
	WCC	62 gr MSSS M855/SS109	2.26	18	2434	25.5	3239	
	WCC	62 gr MSSS BTHP	2.26	18	2445	25.5	3249	
	WCC	69 gr Sierra MK	2.245	18	2356	24.7	2925	
	WCC	75 gr BTHP Hornady	2.25	18	2334	24.3	2904	

MATCH RIFLE D073-06 RELOAD DATA

D073.6 data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure, PSI
.204 Ruger	Norma	24 gr Hornady NTX	2.26	27	3715	31.5	4279	43,370
	Norma	32 gr Hornady V-max	2.26	26	3507	31.5	4197	54,675
	Norma	40 gr Hornady V-max	2.26	24	3140	29.5	3852	57,293
	Norma	45 gr Hornady SP	2.26	24	3164	28.0	3577	56,630
.223 Remington	Winchester	40 gr Hornady V-Max	2.245	22.5	2778	28.5	3678	50,500
	Winchester	55 gr FMJ	2.245	24.0	2940	27.0	3311	53,500
	Winchester	60 gr Hornady V-Max	2.245	23.0	2862	26.2	3123	54,051
	Winchester	62 gr M855/SS109	2.245	23.5	2802	26.1	3156	54,600
	Winchester	69 gr Sierra HPBT	2.245	22.0	2683	25.3	2998	54,960
	Winchester	77 gr Sierra HPBT	2.245	22.0	2580	23.5	2750	54,600
6mm BR Norma	Norma	87 gr Hornady V-max	2.21	25.0	2433	31.2	3014	58,550
6mm BR Norma	Norma	90 gr Lapua Scenar-L	2.32	25.0	2463	31.7	3002	59,560
6mm BR Norma	Norma	105 gr Hornady BTHP	2.32	25.0	2332	29.2	2710	59,850
6mm BR Norma	Norma	105 gr Lapua Scenar	2.32	25.0	2325	29.3	2715	59,840
6mm BR Norma	Norma	105 gr Nosler HPBT	2.35	25.0	2339	29.2	2724	59,229
6mm BR Norma	Norma	107 gr Sierra MK	2.3	25.0	2345	29.0	2669	57,598
243 Winchester	Starline	75 gr Hornady V-max	2.640	35.0	3138	38.3	3327	59,335
	Starline	85 gr Sierra Game King	2.575	34.5	3033	37.6	3112	59,545
	Starline	87 gr Hornady V-max	2.670	33.0	2928	36.2	3068	59,150
224 Valkyrie	Starline	60 gr Hornady V-max	2.26	22	2768	26.7	3151	54,352
	Starline	69 gr Sierra MK	2.26	20	2580	25	2985	53,707
	Starline	77 gr Sierra MK	2.26	18	2326	23	2728	53,911
6.5 Grendel	Starline	120 gr Sierra HPBT	2.26	25.0	2091	32.2	2634	50679
	Starline	123 gr Sierra HPBT	2.26	25.0	2090	31.5	2629	50,319
	Starline	129 gr Hornady SST	2.26	25.0	2047	31.0	2529	51389
	Starline	130 gr Sierra TMK	2.26	25.0	2095	31.0	2536	51,234
	Starline	130 gr Nosler Accubond	2.26	25.0	2028	30.4	2435	50,117
	Starline	140 gr Hornady ELD-M	2.26	25.0	2091	30.0	2397	50,839

MATCH RIFLE D073-06 RELOAD DATA
D073.6 data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure, PSI
6.5 Creedmoor	Hornady	100 gr Hornady A-Max	2.610	38.0	2945	41.4	3266	61,838
.30-30 Winchester	Hornady	125 gr Sierra FN	2.425	35.5	2465	40.0	2778	37,497
	Hornady	150 gr Sierra FN	2.550	30.0	2210	35.6	2531	39,157
	Hornady	170 Speer HCFN	2.550	30.3	2180	34.2	2375	41,105
.308 Winchester	Remington	147 gr M80 Ball	2.750	44.0	2752	48.9	3060	59,671
	Winchester	150 gr Speer BTSP	2.800	44.0	2695	48.7	2982	59,874
	Winchester	168 gr Nosler BT	2.810	42.0	2590	45.7	2798	60,500
	Lapua	168 gr Sierra HPBT	2.810	42.0	2575	46.0	2830	60,777
	Lapua	175 gr Sierra HPBT	2.810	41.0	2560	44.8	2722	61,465
.30-06 Springfield	Federal	150 gr Core-Lokt	3.240	45.0	2530	52.0	2923	59,500
	Federal	150 gr FMJBT	3.300	46.5	Garand Load		2720	44,768
	Federal	150 gr FMJBT	3.240	45.0	2580	52.6	3024	59,495
	Federal	150 gr Speer BTSP	3.275	45.0	2587	51.7	2973	59,173
	Federal	168 gr Sierra HPBT	3.315	42.0	2460	47.5	2782	59,700
5.56 mm	WCC	55 gr Hornady FMJ-BT	2.245	20.7	2434	28.5	3411	
	WCC	69 gr Sierra MK	2.245	18.0	1825	27.2	2975	
	LC	77 gr Sierra MK	2.245	18	1785	25.8	2811	
	WCC	80 gr Sierra MK	2.500	22	2539	24.5	2792	

PRECISION RIFLE S062 RELOAD DATA

S062 data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.223 Remington	Winchester	60 gr Vmax	2.25	18	2281	25.2	3113	54,673
	Winchester	69 gr Sierra MK	2.26	18	2257	24.4	2905	52,698
	Winchester	77 gr Sierra MK	2.26	18	2170	23	2726	54,125
5.56mm	WCC	55 gr MSSS SPBT	2.21	20.5	2218	26C	2878	
	WCC	55 gr MSSS FMJBT	2.22	20.5	2251	26C	2886	
	WCC	62 gr MSSS M855/SS109	2.26	20.5	2197	26C	2875	
	WCC	62 gr MSSS BTHP	2.26	20.5	2181	26C	2849	
	WCC	69 gr Sierra MK	2.26	20	2128	26.6C	2901	
	WCC	73 gr Hornady ELD-M	2.25	20	2231	25.3C	2838	
	WCC	75 gr Hornady BTHP	2.25	20	2235	25	2829	
	WCC	77 gr Sierra MK	2.26	20	2105	25.5 C	2723	
	WCC	80 gr Sierra MK	2.56	20	2227	25.3	2793	
224 Valkyrie	Starline	69 gr Sierra MK	2.26	21	2455	26.6	2932	52,955
	Starline	75 gr Hornady ELD-M	2.26	20	2283	26.3	2840	52,142
	Starline	77 gr Sierra MK	2.26	20	2275	26.4	2855	52,618
	Starline	80 gr Sierra MK	2.26	20	2294	26	2790	54,672
	Starline	88 gr Hornady ELD-M	2.26	20	2193	24.7	2633	54,072
6mm BR Norma	Norma	87 gr Hornady V-max	2.21	25	2421	30.9	2908	59,680
6mm BR Norma	Norma	90 gr Lapua Scenar-L	2.32	25	2424	30.3	2863	59,920
6mm BR Norma	Norma	103 gr Hornady ELD-X	2.35	24	2310	28.3	2624	59,235
6mm BR Norma	Norma	105 gr Hornady BTHP	2.32	24	2251	27.7	2579	59,805
6mm BR Norma	Norma	105 gr Lapua Scenar	2.32	24	2273	27.5	2572	59,245
6mm BR Norma	Norma	105 gr Nosler HPBT	2.35	24	2258	28.2	2610	59,120
6mm BR Norma	Norma	105 gr Berger Hybrid Target	2.415	24	2289	28.2	2612	60,000
6mm BR Norma	Norma	105 gr Berger VLD Hunting	2.37	24	2281	28.2	2612	59,638
6mm BR Norma	Norma	107 gr Sierra MK	2.3	24	2236	29	2609	59,280
6mm BR Norma	Norma	110 gr Sierra MK	2.475	24	2268	27.7	2524	58550
6mm BR Norma	Norma	115gr DTAC	2.34	24	2196	27	2444	59,325

PRECISION RIFLE S062 RELOAD DATA
S062 data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
6mm Dasher *24-inch Barrel	Norma	87 gr Hornady V-max	2.25	27	2526	32.8	2999	58,258
	Norma	103 gr Hornady ELD-X	2.385	25	2388	31.1	2764	59,008
	Norma	107 gr Sierra MK	2.38	25	2375	31.3	2755	59,043
6.5 Creedmoor	Hornady	123 gr Sierra MK	2.745	36	2569	41.4	2910	61,560
	Hornady	129 gr Nosler Accubond LR	2.825	35	2531	38.2	2745	61,045
	Hornady	140 gr Sierra MK	2.75	34	2379	37	2611	61,945
.308 Winchester	Jagemann	135gr Sierra HP	2.7	42	2589	47	2872	52,200
	Jagemann	150 gr Sierra SBT	2.81	42	2618	47.4	2908	61717
	Jagemann	150 gr Hornady FMJBT	2.75	42	2587	47.5	2906	61802
	Jagemann	155 gr Sierra SMK	2.81	42	2591	47	2870	62,000
	Jagemann	165 gr Nosler BT	2.81	41.5	2510	45.5	2730	62,000
	Jagemann	168 gr Hornady Amax	2.81	41.5	2530	44.7	2696	61,915
	Jagemann	168 gr Sierra MK	2.8	41.5	2535	45	2695	61,745
.30-06 Springfield	Jagemann	175 gr Sierra MK	2.8	38	2331	42.5	2596	61,147
	Winchester	150 gr Hornady FMJBT	3.24	46	2612	53.2	2962	58,885
	Winchester	150 gr Hornady FMJBT	3.24	Garand Load		47.9	2700	45,500
	Winchester	150 gr Sierra SBT	3.28	46	2645	53	2967	59,870
	Winchester	150 gr Hornady RN Interlock	3.045	46	2546	54.1	2928	58,020
	Winchester	155 gr Sierra Palma	3.29	46	2599	53.8	2941	59,575
	Winchester	168 gr Hornady Amax	3.3	45	2502	50.3	2768	59,585
	Winchester	168 gr Sierra SMK	3.245	45	2538	49.8	2764	59,000
	Winchester	168 gr Nosler BT	3.34	43	2490	48.7	2815	58,055
	Winchester	175 gr Sierra SMK	3.32	45	2533	49	2714	59,900
	Winchester	190 gr Sierra MK	3.275	42	2420	47.3	2652	59,200

LONG RIFLE S065-01 RELOAD DATA

S065 data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
224 Valkyrie	Starline	69 gr Sierra MK	2.26	21	2405	27.2	2910	54817
	Starline	75 gr Hornady ELD-M	2.26	21	2300	27	2836	54612
	Starline	77 gr Sierra MK	2.26	21	2289	26.9	2821	54218
	Starline	80 gr Sierra MK	2.26	21	2301	26.3	2741	54382
	Starline	88 gr Hornady ELD-M	2.26	21	2231	25.2	2610	55000
6mm Dasher *24-inch Test Barrel	Norma	87 gr Hornady V-Max	2.26	31	2686	35	2976	60000
	Norma	90 gr Lapua Scenar L	2.35	30	2660	33.8	2905	59245
	Norma	103 gr Hornady ELD-X	2.38	29	2520	32.1	2716	59700
	Norma	105 gr Hornady BTHP	2.35	29	2441	32.3	2677	59835
	Norma	105 gr Lapua Scenar	2.35	29	2455	31.6	2675	59680
	Norma	105 gr Berger VLD Hunting	2.42	29	2430	32.6	2700	59850
	Norma	105 gr Berger Hybrid Target	2.43	29	2496	31.6	2666	58895
	Norma	105 gr Nosler RDF	2.38	29	2425	33	2688	59800
	Norma	110 gr Sierra MK	2.5	27	2332	31.2	2621	59450
	Norma	115gr DTAC	2.38	27	2252	31	2528	59425
6mm BR	Norma	87 gr Hornady V-max	2.21	27	2408	32.7	2849	58,370
6mm BR	Norma	90 gr Lapua Scenar-L	2.32	27	2415	32.5	2842	60000
6mm BR	Norma	103 gr Hornady ELD-X	2.35	26	2288	29.7	2588	58500
6mm BR	Norma	105 gr Hornady BTHP	2.32	26	2263	29.8	2563	59175
6mm BR	Norma	105 gr Lapua Scenar	2.32	26	2272	29.6	2572	59795
6mm BR	Norma	105 gr Nosler HPBT	2.35	26	2240	30.4	2593	59215
6mm BR	Norma	105 gr Berger Hybrid Target	2.415	26	2256	30.5	2602	60000
6mm BR	Norma	105 gr Berger VLD Hunting	2.375	26	2246	30.9	2614	59370
6mm BR	Norma	110 gr Sierra MK	2.475	25	2141	30.2	2528	59820
6mm BR	Norma	115 gr DTAC	2.37	25	2082	29.3	2434	59510

LONG RIFLE S065-01 RELOAD DATA								
S065 data can also be found in the Lovex reload guide								
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
6XC	Norma	90 gr Lapua Scenar	2.65	36	2711	40.2	3018	63,670
	Norma	105 gr Lapua Scenar	2.7	36	2688	37.3	2806	64,815
	Norma	115gr DTAC	2.765	34	2660	37.1	2871	64,135
6mm Creedmoor	Lapua	105 gr Berger Hybrid Target	2.825	36	2667	40	2903	61160
.260 Remington	Nosler	123 gr Sierra MK	2.78	39	2725	41.2	2867	59,800
	Lapua	125 gr Nosler Partition	2.8	35	2575	39.3	2820	59,600
	Nosler	140 gr Sierra MK	2.775	34.5	2471	38	2668	60,000
6.5 Creedmoor	Hornady	123 gr Sierra MK	2.745	39.5	2723	42.5	2866	60,671
	Hornady	129 gr Hornady SST	2.825	38	2598	41.5	2747	60,955
	Hornady	129 gr Nosler Accubond	2.825	38	2587	42	2781	61,750
	Hornady	130gr Swift Schirocco	2.825	38	2630	40.3	2670	59,854
	Jagemann	130 gr Berger Hy OTM Tac	2.66	38	2588	41	2771	62,000
	Jagemann	130 gr Nosler RDF HPBT	2.8	38	2591	41	2781	61,955
	Hornady	130 gr Berger Hybrid	2.825	38	2581	41.5	2779	61,380
	Hornady	130 gr Sierra TMK	2.825	38	2569	42	2774	61,100
	Hornady	140 gr Sierra MK	2.75	36	2549	40	2657	60,950
	Hornady	140 gr Berger Hy Tgt	2.8	36	2428	40.3	2644	61,915
	Jagemann	140 gr Nosler RDF HPBT	2.8	35	2410	39	2630	60,850
	Jagemann	140 Berger VLD Tgt	2.75	35	2398	39.5	2648	61,513
	Hornady	140 gr Hornady ELD-M	2.75	35	2365	40.5	2614	61,725
	Hornady	143 gr Hornady ELD-X	2.825	35	2368	39	2545	60,465
.30-06 Springfield	Winchester	150 gr Hornady FMJ-BT	3.23	50	2766	54.3	3060	59,675
	Winchester	168 gr Sierra MK	3.26	48	2648	52	2886	59,905
	Winchester	180 gr Nosler Accubond	3.34	46.5	2525	50	2766	59,950
.300 Win Mag	Jagemann	168 gr Sierra MK	3.34	62	2911	67.5	3113	62,834
	Jagemann	190 gr Sierra MK	3.34	58	2774	62.4	2907	62,234

SW4350 S070-05 RELOAD DATA**S070 reload data can also be found in the Lovex reload guide**

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.260 Rem	Lapua	100 gr Sierra HP	2.7	42	2743	46	3057	59,875
	Lapua	123 gr Sierra MK	2.8	40	2537	44.7	2891	58,750
	Lapua	129 gr Nosler Accubond LR	2.78	40	2530	44.5	2801	59,500
	Lapua	140 gr Sierra MK	2.8	38	2440	42.5	2721	58,950
	Lapua	143 gr Hornady ELD-X	2.8	38	2451	42.7	2761	59,850
6XC *24-inch Barrel	Norma	103gr Hornady ELD-X	2.75	38	2841	41.2	3074	64,850
	Norma	107gr Sierra MK	2.755	38	2803	41.5	3010	64,180
	Norma	110 gr Sierra MK	2.88	38	2726	41	2974	64,860
	Norma	115gr DTAC	2.765	36	2652	39.5	2888	64,855
6mm Creedmoor	Lapua	105 gr Berger Hybrid Target	2.825	40	2581	45.2	2996	61,530
	Lapua	105 gr Hornady BTHP	2.75	40	2692	44.8	2993	61,950
	Lapua	105 gr Lapua Scenar	2.77	40	2655	44.8	2977	61,675
	Lapua	105 gr Nosler RDF	2.775	40	2681	45	3006	61,595
	Lapua	110 gr Sierra MK	2.825	40	2585	45.2	2953	62,000
	Lapua	115 gr DTAC	2.8	39	2611	43	2848	61,100
6mm Dasher *24-inch Barrel	Norma	103 gr Hornady ELD-X	2.385	27	2085	35.9	2753	55,580
	Norma	107 gr Sierra MK	2.38	27	2114	35.9	2729	57,800
	Norma	110 gr Sierra MK	2.51	27	2086	35.5	2668	59,200
.243 Winchester	Federal	107 gr Sierra MK	2.8	36	2580	40.2	2845	57,800

SW4350 S070-05 RELOAD DATA
S070 reload data can also be found in the Lovex reload guide

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
6.5 Creedmoor	Hornady	120 gr Hornady GMX	2.815	39	2500	43.2	2801	61,500
	Hornady	129 gr Hornady SST	2.825	38	2498	42.6	2774	60,800
	Hornady	130 gr Sierra TMK	2.825	38	2505	42.6	2780	61,600
	Hornady	130 gr Nosler Accubond	2.77	36.5	2475	42	2726	61,200
	Jagemann	130 gr Berger Hybrid Tactical	2.66	40	2498	45.3	2771	60,070
	Hornady	130 gr Berger Hybrid	2.825	38	2477	43.1	2801	61,630
	Hornady	140 gr Sierra MK	2.75	38	2436	41.5	2641	61,540
	Hornady	140 gr Hornady ELD-M	2.75	38	2445	41.2	2639	60,100
	Hornady	140 gr Hornady SP Interlock	2.75	38	2454	40.7	2632	61,970
	Hornady	140 gr Berger Hybrid Target	2.8	38	2353	43.3	2682	60,908
	Hornady	143 gr Hornady ELD-X	2.88	38	2430	40.7	2607	61,600
	Hornady	147 gr Hornady ELD-M	2.9	37	2388	40.3	2560	61,000
270 Winchester	Winchester	150 gr Hornady SST	3.2	48	2618	51.7	2835	63,300
7mm Rem Mag	Jagemann	140 gr Nosler Partition	3.25	59	2832	63	3068	59,200
.30-06 Springfield	Winchester	150 gr Hornady FMJ-BT	3.25	52	2650	59	3079	58,200
	Winchester	168 gr Hornady HPBT	3.27	50	2491	57	2881	59,375
	Winchester	190 gr Sierra MK	3.275	48	2431	54.3	2718	59,295
.300 Win Mag	Jagemann	150 gr Hornady FMJBT	3.315	68	2880	75.5	3253	63,580
	Jagemann	168 gr Hornady HPBT	3.34	65	2750	72.5	3084	61,100
	Jagemann	180 gr Speer BTSP	3.34	64	2648	71.8	2969	62,900
	Jagemann	220 gr Sierra MK	3.45	58	2582	65.5	2702	63,426
.300 Win Mag	Jagemann	208 gr Hornady HPBT	3.45	60	2527	68.3	2787	63,382

SW-BMG D100 Reload Data

[illegible]

**Multi-Purpose Black, a loose Black Powder substitute.
All data provided by American Pioneer Powder.**

Muzzle Loader Caliber	Projectile	Starting Charge	Starting Velocity	Max Charge	Max Velocity
45 Caliber	250 grain			100	1933
50 Caliber	245 grain	100	1837	120	1928
50 Caliber	295 grain			100	1714
<u>Black Powder Cartridges</u>	<u>Projectile</u>			<u>Max Charge</u>	
.357 Magnum	154 grain			13	
.38-40 Winchester	175 grain			21	
.44 Evans	200 grain			17.5	
.44 Rem Magnum	200 grain			21	
.44-40 Winchester	200 grain			21	
.45 Colt	200 grain			22	
.45 Colt	230 grain			22	
.45-70 Govt	405 grain			54	
.50-70 Govt	518 grain			50	
12 ga Shotgun	1 oz.			51	

The Hunter, a pellet Black Powder substitute.
All data provided by American Pioneer Powder.

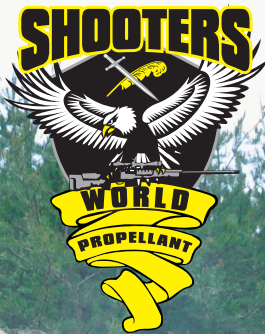
Muzzle Loader Caliber	Projectile	Starting Charge	Starting Velocity	Max Charge	Max Velocity
50 Caliber	230 grain	2 Pellets	1802	3 Pellets	2045
	245 grain	2 Pellets	1793	3 Pellets	2033
	295 grain	2 Pellets	1758		
	300 grain	2 Pellets	1755	3 Pellets	1941

RIFLE

COMPETITIVE SHOOTERS DATA

Clean Shot-Hard Cast Lead Bullet Competition Data

<u>Caliber</u>	<u>Case</u>	<u>Projectile</u>	<u>Min Charge</u>	<u>Min Velocity</u>	<u>Power Factor</u>	<u>Load Length</u>	<u>Max Charge (Grains)</u>	<u>Max Velocity (FPS)</u>	<u>Max Pressure AVG</u>
38 Special	R2LP	105gr Round Nose	2.60	662	69	1.450	5.10	1208	16,469
38 Special	R2LP	125gr Round Nose	2.50	629	78	1.450	4.40	1060	16,430
38 Special	R2LP	158gr Round Nose	2.50	446	70	1.450	4.00	943	16,973
45 ACP	Jagemann	200gr SWC	1.70	396	79	1.250	5.20	959	21,024
45 ACP	Jagemann	200gr Round Nose	1.80	366	73	1.210	5.30	949	19,620
45 ACP	Jagemann	230gr Round Nose	1.80	366	84	1.230	4.30	830	19,414
9mm	Jagemann	124gr LRN	1.70	530	66	1.090	4.10	1067	34,709
45 Long Colt	Starline	160gr	3.60	419	67	1.500	9.20	1150	12,457
45 Long Colt	Starline	200gr Round Nose	3.30	363	73	1.595	8.20	1031	12,902
44 Special	Jagemann	200gr RN	2.00	446	89	1.430	5.40	927	14,769



 **VEX**



EXPLOZIA