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	DO32.03	Accurate® No 2	TITEGROUP®	231	Bullseye		N320
Ultimate Pistol	D036.07			Autocomp	Unique		
					Herco		
			Universal				
		Silhouette		WSF			
Auto Pistol	D036.03	Accurate® No 5					3N37
			HS 6		Power Pistol		N330
Major Pistol	D037.01	Accurate® No 7			Blue Dot	IMR Blue	
			LONGSHOT®				
Heavy Pistol	D037.02	Accurate® No 9					
			LIL'GUN®		2400		
			H110®	296		IMR 4227	N110
Buffalo Rifle	D060.01	Accurate®5744			300-MP		
SOCOM			H4198			IMR 4198	N120
Blackout	D063.02	Accurate® 1680		680	Reloader 7		
AR-Plus	D073.04	Accurate® 2230	H335®		Reloader 10	IMR 3031	N130
Tactical Rifle	D073.01/73.08						
	D073.05	Accurate® 2460	BL-C(2)®	748		IMR 8208	N133
			LEVERevolution®		AR-Comp		N135
Match Rifle	D073.06	Accurate® 2520	CFE 223		Reloader 15	IMR 4064	N140
Precision	S062.02		VARGET®			IMR 4320	
			H380®				
Long Rifle	S065.01		H414®	760			N150
					Reloader 17		
SW4350	S070.05	Accurate® 4350	H4350			IMR4350	
							N550
	S071	Accurate® 3100	H4831®		Reloader 19		N160
				SUPREME 780			
					Reloader 22		N560
							N165
					Reloader 25		N170
			H1000				
BMG	D100.01		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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■ 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 propellants 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. 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 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.

As the name implies, this propellants main purpose is to enhance cycling of virtually all automatic pistols. It accomplishes the task by way of optimized energy transfer, both to the projectile, and upon the firearm. From self-defense carry ammunition, to competition ammunition, to realistic training ammunition, Auto Pistol can assist the shooter with optimized reliability in even difficult to cycle compact pistols.

Additionally, if you're running once-fired cases of unknown history, this propellant will help you hedge your bets against overworked brass. Due to its particle size, it'll result in cleaner loads than with like-burning propellants such as Ramshot Silhouette.

The density of Auto Pistol is approximately 0.95 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 D036.

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 a 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 ⅞ MOA, with many groups ½ 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.

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 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	8,954	1,177
Winchester AA	Rem 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	10,281	1,214
Winchester AA	Win 209	17.3 gr	21	E1	WAA12	8-1 1/8 oz	6	8,849	1,165
Winchester AA	Win 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	10,310	1,202
Remington STS	Rem 209	17.3 gr	21	E1	Fed 12S3	8-1 1/8 oz	6	8,850	1,140
Remington STS	Rem 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 0z	6	10,148	1,204
Remington STS	Rem 209	17.3 gr	21	E1	WAA12	8-1 1/8 oz	6	6,610	1,154
Remington STS	Rem 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	8,854	1,201
Remington STS	Win 209	17.3 gr	21	E1	Fed 12S3	8-1 1/8 oz	6	8,810	1,133
Remington STS	Win 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 oz	6	9,990	1,193
Remington STS	Win 209	17.3 gr	21	E1	WAA12	8-1 1/8 oz	6	6,720	1,149
Remington STS	Win 209	18.4 gr	23	E2	WAA12	8-1 1/8 oz	6	8,810	1,211
Remington STS	Rem 209	21.6 gr	27	G	Fed 12S3	8-1 1/8 oz	6	10,840	1,245
Remington STS	Rem 209	21.6 gr	27	G	WAA12	8-1 1/8 oz	6	9,943	1,248
Fiocchi	Rem 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 oz	6	5,358	1,149
Fiocchi	Win 209	19.5 gr	24	F	Fed 12S3	8-1 1/8 oz	6	6,781	1,186
Fiocchi	Win 209	21.6 gr	27	G	Fed 12S3	8-1 1/8 oz	6	8,995	1,265
Federal	Win 209	18.4 gr	23	E2	Fed 12S3	8-1 1/8 oz	6	6,265	1,133
Federal	Win 209	19.5 gr	24	F	Fed 12S3	8-1 1/8 oz	6	7,038	1,176

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	1,000	20,196
.380 Auto	Jagemann	90 gr Hornady XTP	0.965	2.3	750	3.0	977	21,400
.380 Auto	Jagemann	95 gr Sierra FMJ	0.945	2.6	761	3.0	932	21,375
9mm Luger	Winchester	90 gr Ervin TC Frangible	1.135	4.0	1,146	4.3	1,205	34,638
9mm Luger	Winchester	100 gr Sinterfire FN	1.14	3.8	1,020	5.1	1,224	33,500
9mm Luger	Jagemann	115 gr Berry RN	1.16	3.6	951	4.7	1,136	34,720
9mm Luger	Winchester	115 gr Winchester FMJ	1.16	4.0	978	4.7	1,130	34,680
9mm Luger	Jagemann	115 gr Hornady XTP	1.075	4.0	1,005	4.5	1,090	35,000
9mm Luger	Jagemann	124 gr Nosler JHP	1.1	3.2	900	4.4	1,063	34,985
9mm Luger	Jagemann	124 gr Hornady XTP	1.06	3.4	915	4.2	1,064	33,420
9mm Luger	Jagemann	147 gr Hornady XTP	1.1	N/A	N/A	3.7	910	33,500
.38 SPL	Jagemann	110 gr Sierra JHP	1.455	3.7	525	5.0	1,158	17,000
.38 SPL	Jagemann	125 gr LC RNFP	1.44	3.0	696	4.8	1,089	16,258
.38 SPL	Jagemann	125 gr Hornady XTP	1.455	3.0	660	4.6	1,035	17,000
.38 SPL	Jagemann	125 gr Speer TMJ	1.455	2.6	636	4.5	1,052	16,495
.38 SPL	Jagemann	140 gr Hornady XTP	1.455	2.9	545	4.3	937	17,000
.38 SPL	Jagemann	140 gr Sierra JHP	1.455	2.9	501	4.3	921	16,876
.38 SPL	Jagemann	148 gr Berry Wad-cutter	1.15	N/A	N/A	2.7	752	17,000
.38 SPL	Jagemann	158 gr Sierra JSP	1.455	2.9	546	3.8	786	16,200
.38 SPL	Jagemann	158 gr Hornady XTP	1.455	2.9	568	3.8	740	16,607
.38 SPL	Jagemann	158 gr Nosler JHP	1.455	3.0	591	3.8	839	16,748

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)
.357 Magnum	Jagemann	110 gr Sierra JHP	1.575	4.0	1,006	7.8	1,619	33,641
.357 Magnum	Jagemann	125 gr Sierra JSP	1.575	4.0	972	7.6	1,500	33,950
.357 Magnum	Jagemann	125 gr LC Acme coated	1.5	4.0	1,059	7.3	1,524	34,190
.357 Magnum	Jagemann	135 gr Speer Gold Dot	1.6	4.0	941	7.2	1,430	35,000
.357 Magnum	Jagemann	140 gr Sierra JHP	1.575	3.5	759	7.0	1,381	34,020
.357 Magnum	Jagemann	158 gr Sierra JSP	1.575	3.5	783	6.5	1,305	34,015
.357 Magnum	Jagemann	158 gr LC SWC	1.600	3.5	941	6.3	1,321	33,920
.357 Magnum	Jagemann	158 gr Nosler JHP	1.6	3.5	762	6.5	1,294	34,400
.40 S&W	Jagemann	115 gr Ervin TC frangible	1.125	4.5	1,087	5.5	1,225	32,543
.40 S&W	Remington	135 gr Sierra JHP	1.125	6.0	1,132	6.6	1,225	34,400
.40 S&W	Remington	150 gr Sierra JHP	1.125	5.5	1,012	6.1	1,119	34,722
.40 S&W	Remington	155 gr Hornady XTP	1.125	5.2	1,000	5.8	1,100	34,706
.40 S&W	Remington	180 gr Sierra JHP	1.125	4.4	842	4.8	934	35,000
.40 S&W	Remington	180 gr Extreme	1.125	4.4	804	5.3	960	34,400
.45 Auto	Winchester	145 gr Ervin TC Frangible	1.25	5.5	1,049	6.2	1,139	20,304
.45 Auto	Winchester	155 gr Sinterfire FP	1.21	5.0	935	5.9	1,100	20,055
.45 Auto	Jagemann	185 gr Zero JHP	1.21	4.8	784	6.3	1,029	21,000
.45 Auto	Jagemann	185 gr Hornady XTP	1.21	4.5	816	5.8	1,020	19,950
.45 Auto	Jagemann	200 gr Hornady XTP	1.21	5.0	825	5.6	988	20,630
.45 Auto	Winchester	230 gr Winchester RN	1.2	4.5	747	5.3	899	19,900
.45 Auto	Jagemann	230 gr Hornady XTP	1.21	4.3	724	5.1	870	20,530
.45 Auto	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	1,048	13,357
.45 Colt	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	1,002	20,679
.380 Auto	Jagemann	90 grain Hornady XTP	0.965	3.7	870	4.2	1,031	19,900
.380 Auto	Jagemann	95 grain Sierra FMJ	0.965	3.3	835	4.0	939	20,377
.380 Auto	Jagemann	100 grain Berry RN	0.960	3.3	802	3.8	949	21,246
9mm Luger	Jagemann	90 gr Ervin TC Frangible	1.135	4.5	1,162	5.0	1,240	33,648
9mm Luger	Jagemann	115 grain Hornady XTP	1.075	4.7	975	5.7	1,188	34,300
9mm Luger	Jagemann	115 gr LC RNFP 10 Saeco	1.077	4.2	943	5.1	1,183	34,740
9mm Luger	Jagemann	115 grain Winchester FMJ	1.160	4.6	927	6.4	1,237	34,500
9mm Luger	Jagemann	122 gr LC RNFP 10 Saeco	1.040	4.3	1,009	4.7	1,094	32,948
9mm Luger	Jagemann	124 grain Nosler JHP	1.085	4.3	878	5.6	1,145	34,870
9mm Luger	Jagemann	124 grain Hornady XTP	1.060	4.3	902	5.5	1,163	34,344
9mm Luger	Jagemann	147 gr LC RNFP 10 Saeco	1.110	3.7	872	4.2	966	34,470
9mm Luger	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	1,161	37,144
.357 Magnum	Jagemann	110 gr Sierra JHP	1.575	4.0	884	8.9	1,505	34,351
.357 Magnum	Jagemann	125 gr Sierra JSP	1.575	4.0	849	8.6	1,395	33,271
.357 Magnum	Jagemann	125 gr LC Acme coated	1.5	4.0	953	8.4	1,421	34,411
.357 Magnum	Jagemann	135 gr Speer Gold Dot	1.6	4.0	823	8.1	1,305	33,489
.357 Magnum	Jagemann	140 gr Sierra JHP	1.575	4.0	807	8.1	1,308	34,350
.357 Magnum	Jagemann	158 gr Sierra JSP	1.575	4.0	810	7.5	1,199	33,238
.357 Magnum	Jagemann	158 gr LC SWC	1.600	4.0	935	7.3	1,220	33,130
.357 SIG	Jagemann	115 grain Hornady HAP	1.135	6.5	1,126	8.3	1,405	38,363
.357 SIG	Jagemann	115 grain X-treme HP	1.135	6.5	1,131	8.3	1,414	36,600
.357 SIG	Jagemann	115 grain Precision Delta HP	1.160	6.5	1,135	8.6	1,445	39,908
.357 SIG	Jagemann	124 grain Hornady XTP	1.135	6.5	1,117	7.7	1,335	38,300
.357 SIG	Jagemann	124 grain Berry's HHP	1.145	6.5	1,105	8.2	1,365	37,525
.357 SIG	Jagemann	147 grain Hornady XTP	1.140	5.0	888	6.7	1,140	38,300
.38 SPL	Jagemann	110 grain Sierra JHP	1.450	4.0	645	6.8	1,254	17,000
.38 SPL	Jagemann	125 grain Hornady XTP	1.455	4.0	460	6.3	1,092	16,700
.38 SPL	Jagemann	135 grain Gold Dot	1.455	4.0	521	5.4	966	16,400
.38 SPL	Jagemann	140 grain Hornady XTP	1.455	4.0	665	5.6	990	16,672
.38 SPL	Jagemann	158 grain Hornady XTP	1.450	4.0	558	5.0	874	17,000
.38 SPL	Jagemann	158 grain Nosler JHP	1.450	4.0	601	5.4	961	16,699
.38 SPL	Jagemann	158 gr SWC Leatherhead	1.460	3.0	495	4.7	938	17,000
38 Super Auto +P	Jagemann	124 gr Hornady RN	1.250	5.0	994	6.5	1,269	36,015
38 Super Auto +P	Jagemann	115 gr Hornady HAP	1.250	5.0	1,041	7.0	1,331	36,120
38 Super Auto +P	Jagemann	124 gr Xtreme HP	1.250	5.0	1,018	6.9	1,280	36,085
38 Super Auto +P	Jagemann	124 gr Berry Hybrid HP	1.250	5.0	982	6.9	1,285	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	115 gr Ervin TC frangible	1.125	5.0	1,045	6.3	1,250	34,467
.40 S&W	Jagemann	135 Sierra JHP	1.125	5.5	477	8.0	1,303	32,300
.40 S&W	Jagemann	155 grain Hornady XTP	1.125	4.6	682	7.7	1,232	31,800
.40 S&W	Jagemann	165 grain Sierra JHP	1.125	4.3	647	6.8	1,139	33,900
.40 S&W	Jagemann	180 gr LC RNFP 10 Saeco	1.125	4.5	849	6.4	1,068	32,400
.40 S&W	Jagemann	180 grain Sierra JHP	1.125	4.0	595	6.3	1,049	33,500
.40 S&W	Jagemann	180 grain Hornady HAP	1.125	3.8	630	6.0	1,027	31,800
.40 S&W	Jagemann	180 Hornady XTP	1.125	4.0	618	6.4	1,081	34,700
.40 S&W	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	1,261	9.1	1,346	36,138
10mm Auto	Jagemann	180 grain Hornady XTP	1.260	6.8	1,097	7.8	1,190	36,923
44 REM MAG carbine	Jagemann	180 gr Hornady XTP	1.600	8.0	1,106	13.5	1,698	32,935
44 REM MAG carbine	Jagemann	200 gr Hornady XTP	1.600	8.0	1,090	13.0	1,598	34,323
44 REM MAG carbine	Jagemann	220 gr Sierra FPJ	1.600	8.0	1,051	11.8	1,444	32,313
44 REM MAG carbine	Jagemann	240 gr Nosler JHP	1.600	8.0	1,057	11.3	1,308	34,323
44 REM MAG carbine	Jagemann	240 gr Hornady XTP	1.600	8.0	1,023	11.3	1,362	35,000
44 REM MAG carbine	Jagemann	240 gr Sierra JHC	1.600	8.0	1,056	11.1	1,300	33,868
44 REM MAG carbine	Jagemann	300 gr Sierra JSP	1.740	8.0	895	10.5	1,177	32,833
.45 Colt	Jagemann	200 gr LC SWC	1.6	5.0	552	10.5	1,145	13,801
.45 Colt	Jagemann	250 grain Hornady XTP	1.595	5.0	503	8.8	962	13,975
.45 Colt	Jagemann	300 gr LC Saeco FP Md# 454	1.600	5.0	452	8.0	851	13,968
.45 Colt	Jagemann	300 gr Hornady XTP	1.590	5.0	471	7.2	814	13,723
.45 Auto	Jagemann	145 gr Ervin TC Frangible	1.250	7.0	1,053	8.0	1,207	19,252
.45 Auto	Jagemann	185 grain Hornady XTP	1.210	4.5	552	8.6	1,095	20,100
.45 Auto	Jagemann	185 grain LC SWC 10 Saeco	1.255	3.5	578	7.7	1,118	18,900
.45 Auto	Jagemann	200 grain Hornady XTP	1.210	3.9	534	7.9	1,025	20,618
.45 Auto	Jagemann	200 grain LC SWC 10 Saeco	1.255	3.7	636	7.2	1,040	20,465
.45 Auto	Jagemann	225 grain LC RN 7 Saeco	1.210	4.2	510	6.8	945	19,700
.45 Auto	Jagemann	230 grain Hornady XTP	1.210	3.7	480	6.7	921	20,200
.45 Auto	Jagemann	230 grain Berry HP	1.210	3.7	448	7.2	940	21,000
.45 Auto	Jagemann	230 grain LC RN 10 Saeco	1.275	3.7	475	6.8	978	20,135
.45 Auto	Jagemann	230 grain Nosler FMJ	1.210	3.7	462	7.2	935	20,100

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 Presure (PSI)
.380 Auto	Jagemann	90 gr Hornady XTP	0.965	3.5	710	5.0	1,018	20,976
.380 Auto	Jagemann	90 gr Sierra JHP	0.965	3.7	710	5.3	1,017	21,500
9mm Luger	Jagemann	115 gr FMJ	1.16	5.0	905	6.8	1,216	34,956
9mm Luger	Jagemann	115 gr Xtreme FP	1.16	5.5	894	7.0	1,139	33,909
9mm Luger	Jagemann	115 gr Berry	1.16	5.0	895	6.9	1,181	34,319
9mm Luger	Jagemann	115 gr Hornady XTP	1.075	5.0	925	6.4	1,189	34,943
9mm Luger	Jagemann	124 gr Nosler JHP	1.085	4.8	890	6.0	1,110	33,850
9mm Luger	Jagemann	124 gr Hornady XTP	1.06	4.8	916	5.7	1,079	34,739
9mm Luger	Jagemann	147 gr Hornady XTP	1.1	4.0	752	5.2	969	35,000
.38 SPL	Jagemann	110 gr Sierra JHP	1.455	5.0	528	8.3	1,232	16,874
.38 SPL	Jagemann	125 gr Hornady XTP	1.455	4.8	710	7.5	1,152	17,000
.38 SPL	Jagemann	140 gr Hornady XTP	1.455	5.0	697	6.9	1,014	16,624
.38 SPL	Jagemann	158 gr Nosler JHP	1.455	4.5	525	6.7	1,030	17,000
.38 SPL	Jagemann	158 gr Hornady XTP	1.455	4.5	597	6.4	942	17,000
.38 SPL	Jagemann	158 gr SWC Leatherhead	1.460	4.0	692	5.8	970	17,000
.357 Magnum	Jagemann	110 gr Sierra JHP	1.575	5.5	805	10.9	1,560	34,780
.357 Magnum	Jagemann	125 gr Sierra JSP	1.575	5.5	781	12.3	1,625	31,883
.357 Magnum	Jagemann	125 gr LC Acme coated	1.5	5.5	866	11.0	1,553	32,097
.357 Magnum	Jagemann	135 gr Speer Gold Dot	1.6	5.5	772	10.7	1,456	34,080
.357 Magnum	Jagemann	140 gr Sierra JHP	1.575	5.5	739	10.2	1,384	33,819
.357 Magnum	Jagemann	158 gr Sierra JHC	1.575	5.0	643	9.5	1,277	33,440

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 Presure (PSI)
.38 SPL +P	Starline	110 gr Sierra JHP	1.455	N/A	N/A	9.0	1,348	19,683
.38 SPL +P	Starline	125 gr Hornady XTP	1.455	N/A	N/A	8.3	1,244	20,000
.38 SPL +P	Starline	140 gr Hornady XTP	1.455	N/A	N/A	7.7	1,134	19,553
.38 SPL +P	Starline	158 gr Hornady XTP	1.455	N/A	N/A	7.0	1,030	20,000
.357 Sig	Jagemann	124 gr Hornady XTP	1.14	8.0	1,169	9.4	1,374	37,245
.357 Sig	Jagemann	147 gr Hornady XTP	1.14	7.0	1,030	8.1	1,192	36,931
.40 S&W	Jagemann	150 gr Sierra JHP	1.125	7.0	920	9.0	1,201	33,380
.40 S&W	Jagemann	155 gr Hornady XTP	1.125	6.9	963	8.3	1,159	32,613
.40 S&W	Jagemann	165 gr Sierra JHP	1.125	6.5	964	7.7	1,123	34,551
.44 Remington Magnum	Jagemann	180 gr Xtreme FP	1.125	6.5	875	8.4	1,130	34,812
44 REM MAG carbine	Jagemann	180 gr Hornady XTP	1.600	8.0	939	16.3	1,800	34,192
44 REM MAG carbine	Jagemann	200 gr Hornady XTP	1.600	8.0	868	15.7	1,697	34,965
44 REM MAG carbine	Jagemann	220 gr Sierra FPJ	1.600	8.0	902	14.8	1,548	34,075
44 REM MAG carbine	Jagemann	240 gr Nosler JHP	1.600	8.0	869	14.0	1,374	34,445
44 REM MAG carbine	Jagemann	240 gr Hornady XTP	1.600	8.0	849	14.0	1,484	34,490
44 REM MAG carbine	Jagemann	240 gr Sierra JHC	1.600	8.0	888	13.5	1,392	34,090
44 REM MAG carbine	Jagemann	300 gr Sierra JSP	1.740	8.0	704	13.0	1,283	34,445
44 REM MAG carbine	Jagemann	300 gr Hornady XTP	1.600	8.0	758	12.0	1,233	35,000
.45 Auto	Jagemann	200 gr Hornady XTP	1.21	7.5	779	10.0	1,080	20,517
.45 Auto	Jagemann	230 gr Hornady XTP	1.21	6.0	675	8.4	950	20,182
.45 Auto	Jagemann	230 gr Nosler FMJ	1.21	6.5	740	9.3	1,004	21,000
.45 Auto	Jagemann	230 gr Winchester FMJ	1.25	6.5	715	9.0	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 (MSSS)	1.14	5.7	999	6.6	1,136	34,912
9mm Luger	Jagemann	115 gr Hornady HAP	1.05	7.1	1,050	7.8	1,230	35,000
9mm Luger	Jagemann	124 gr Copper Solid HP (MSSS)	1.14	5.3	898	6.0	1,019	34,300
9mm Luger	Jagemann	124 gr Hornady XTP	1.1	5.6	896	7.3	1,149	34,400
9mm Luger	Jagemann	124 gr Berry Hybrid HP	1.02	5.4	879	7.4	1,172	33,700
9mm Luger	Jagemann	124 gr Hornady FMJ	1.1	5.4	862	7.4	1,160	33,700
.357 Magnum	Jagemann	110 gr Sierra JHP	1.57	7.0	934	12.8	1,614	34,564
.357 Magnum	Jagemann	125 gr Sierra JSP	1.575	6.5	800	12.1	1,500	34,960
.357 Magnum	Jagemann	125 gr LC Acme coated	1.5	6.5	777	11.7	1,514	34,523
.357 Magnum	Jagemann	135 gr Speer Gold Dot	1.6	6.0	770	11.1	1,405	34,335
.357 Magnum	Jagemann	140 gr Sierra JHP	1.575	6.0	721	11.0	1,374	33,240
.357 Magnum	Jagemann	158 gr Sierra JHC	1.575	6.0	570	10.7	1,305	34,303
38 Super Auto +P	Jagemann	124 gr Hornady RN	1.280	8.0	1,066	11.5	1,412	36,196
38 Super Auto +P	Jagemann	115 gr Hornady HAP	1.280	8.0	1,101	11.9	1,487	36,092
38 Super Auto +P	Jagemann	147 gr FMJ-TC	1.28	7.5	995	9.8	1,248	36,331
.40 S&W	Jagemann	150 gr Sierra JHP	1.125	9.1	985	11.4	1,244	31,600
.40 S&W	Jagemann	165 gr Sierra JHP	1.125	7.6	955	10.4	1,160	33,600
.40 S&W	Jagemann	180 gr Hornady XTP	1.125	7.4	818	9.5	1,136	34,400
.40 S&W	Jagemann	180 gr Sierra JHP	1.125	6.9	877	9.8	1,122	35,000
.40 S&W	Jagemann	200 gr Hornady XTP	1.125	6.5	740	8.5	1,012	33,600
10mm Auto	Jagemann	150 gr Sierra JHP	1.26	8.5	790	13.2	1,415	37,073
10mm Auto	Jagemann	165 gr Sierra JHP	1.26	8.2	724	12.2	1,311	36,700
10mm Auto	Jagemann	165 gr Zero HP	1.26	8.0	687	12.0	1,292	36,286
10mm Auto	Jagemann	180 gr Sierra JHP	1.26	7.5	690	11.1	1,213	37,185
10mm Auto	Jagemann	180 gr Hornady XTP	1.26	7.5	700	11.4	1,230	36,928
10mm Auto	Jagemann	180 gr Extreme HP	1.26	7.5	744	11.1	1,232	36,941
10mm Auto	Jagemann	180 gr Berry Hybrid HP	1.26	7.5	746	11.8	1,268	37,500
10mm Auto	Jagemann	200 gr Hornady XTP	1.26	7.0	643	9.8	1,085	37,096
.44 REM Mag	Jagemann	180 gr Hornady XTP	1.6	12.0	1,211	19.3	1,631	32,700
44 REM MAG carbine	Jagemann	180 gr Sierra JHC	1.600	14.0	1,396	21.4	2,000	34,865
44 REM MAG carbine	Jagemann	220 gr Sierra FPJ	1.600	14.0	1,342	18.6	1,716	33,750
44 REM MAG carbine	Jagemann	240 gr Nosler JHP	1.600	13.0	1,238	17.5	1,541	34,935
44 REM MAG carbine	Jagemann	240 gr Hornady XTP	1.600	13.0	1,226	17.2	1,575	34,745
44 REM MAG carbine	Jagemann	240 gr Sierra JHC	1.600	13.0	1,229	17.4	1,579	34,480
.45 Auto	Jagemann	160 gr Copper Solid HP (MSSS)	1.19	8.5	912	11.5	1,191	20,500
.45 Auto	Jagemann	185 gr Copper Solid HP (MSSS)	1.19	8.0	905	9.6	1,076	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	1,842	14.2	2,004	54,283
.300 Blackout	Jagemann	140 gr Nosler HPBT	1.925	11.2	1,735	13.2	1,854	52,590
.357 Magnum	Jagemann	110 gr Sinterfire	1.590	10.0	1,184	13.8	1,564	33,345
.357 Magnum	Jagemann	110 gr Sierra JHP	1.590	14.0	1,465	15.9	1,725	34,632
.357 Magnum	Jagemann	125 gr Speer GDHP	1.590	12.0	1,255	15.3	1,692	34,800
.357 Magnum	Jagemann	140 gr Hornady XTP	1.590	11.0	1,180	14.0	1,501	34,917
.357 Magnum	Jagemann	158 gr Hornady XTP	1.580	10.0	1,055	12.1	1,296	32,726
.357 Magnum	Jagemann	158 gr Nosler JHP	1.590	10.0	1,078	12.2	1,378	34,556
.357 Magnum	Jagemann	158 gr Berry FN	1.590	10.0	998	12.9	1,359	34,425
.44 REM MAG	Winchester	180 gr Hornady XTP	1.600	20.0	1,392	23.3	1,697	35,304
.44 REM MAG	Winchester	220 gr Sierra FPJ	1.600	17.9	1,299	21.0	1,529	35,675
.44 REM MAG	Winchester	240 gr Nosler JHP	1.600	15.5	1,080	18.8	1,406	35,920
.44 REM MAG	Winchester	300 gr Hornady XTP	1.600	12.7	978	14.9	1,151	35,560
44 REM MAG carbine	Wincester	180 gr Hornady XTP	1.6	14.0	1,301	23.0	2,086	35,950
44 REM MAG carbine	Wincester	180 gr Sierra JHC	1.6	14.0	1,291	22.8	2,068	35,345
44 REM MAG carbine	Wincester	220 gr Sierra FPJ	1.600	14.0	1,273	20.8	1,850	36,000
44 REM MAG carbine	Wincester	240 gr Nosler JHP	1.600	13.0	1,135	19.5	1,739	35,975
44 REM MAG carbine	Wincester	240 gr Hornady XTP	1.600	13.0	1,127	19.6	1,729	35,755
44 REM MAG carbine	Wincester	240 gr Sierra JHP	1.600	13.0	1,210	19.1	1,720	35,995
44 REM MAG carbine	Wincester	300 gr Sierra JSP	1.740	13.0	1,116	17.8	1,508	36,000

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)
.243 Winchester	Win-chester	100 gr Sierra Spitzer	2.6	12.0	1,670	28.5	2,803	58,950
.30-06 Springfield	Jage-mann	125 gr Sierra Spitzer	3.16	10.0	1,210	41.7	2,919	58,261
.30-06 Springfield	Jage-mann	150 gr Hornady FMJBT	3.24	10.0	1,214	40.5	2,727	55,106
.30-06 Springfield	Jage-mann	168 gr Sierra SMK	3.245	10.0	1,074	38.0	2,550	57,871
.30-06 Springfield	Jage-mann	180 gr Sierra SBT	3.3	10.0	1,020	37.8	2,514	60,000
30-06 Spring-field Garand	Jage-mann	150 gr Hornady FMJBT	3.185	Safe in Garand	N/A	40.8	2,785	58,472
.38-55	Starline	255gr LC RNFP 10 Saeco	2.57	18.0	1,266	24.0	1,646	29,600
.40-65	Starline	250 gr LC RNFP 10 Saeco	2.47	27.0	1,594	31.8	1,846	28,000
.45-70	Starline	300 gr JHP Winchester	2.55	30.0	1,476	38.5	1,845	28,000
.45-70	Starline	300 gr LC RNFP 10 Saeco	2.55	30.0	1,449	40.5	1,902	27,300
.45-70	Starline	350 gr LC RNFP 7 Saeco	2.545	24.0	1,160	30.5	1,450	17,358
.45-70	Starline	405 gr LC RNFPHB 5 Saeco	2.56	24.0	1,185	27.0	1,317	17,390
.45-70	Starline	405 gr LC RNFP 10 Saeco	2.55	30.0	1,425	34.5	1,608	28,000
.45-70	Starline	500 gr LC RNFP 10 Saeco	2.55	22.0	1,060	28.7	1,368	27,460
5.56mm	WCC	55gr Hornady FMJ	2.245	18.0	2,769	21.0	3,130	N/A
458 SOCOM	Starline	300 gr Sierra Pro Hunter	2.04	30.0	1,410	37.1	1,727	34,505
458 SOCOM	SBR	300 gr Barnes TTSX	2.25	30.0	1,425	34.7	1,636	34,808
458 SOCOM	SBR	350 gr SBR FMJ	2.25	30.0	1,477	35.5	1,596	35,000
458 SOCOM	Starline	450 gr SBR FMJ	2.25	28.0	1,206	32.0	1,378	35,000
450 Bushmaster	Starline	300 gr Hornady XTP	2.1	30.0	1,477	36.5	1,821	38,360
350 Legend	Starline	170 gr Hornady Interlock SP .355	2.26	10.0	606	30.0	2,184	53,483
.30-30 Winchester	Hornady	150 gr Sierra FN	2.550	12.0	1,152	25.7	2,221	42,000
.30-30 Winchester	Hornady	160 gr Hornady FTX	2.535	12.0	1,194	24.2	2,138	40,780
.30-30 Winchester	Hornday	170 gr Speer HCFN	2.550	12.0	1,167	24.2	2,060	41,940
270 Winchester	REM	110 gr Hornady V-Max	3.165	12.0	1,206	42.3	3,169	62,345
270 Winchester	REM	130 gr Hornady SST	3.21	20.0	1,632	39.4	2,849	63,114
6.8 SPC	Hornady	90 gr Sierra HP	2.24	12.0	1,470	25.0	2,715	52,740
6.8 SPC	Hornady	110 gr Hornady V-Max	2.26	12.0	1,413	23.0	2,477	52,185

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	110 gr Ervin Frangible	2.06	17.0	1,874	19.0	2,072	35,850
300 Blackout	Jagemann	110 gr Nosler	2.08	16.0	1,923	21.0	2,348	43,355
300 Blackout	Jagemann	125gr Sierra HP	2.245	16.0	1,784	21.0	2,184	39,970
300 Blackout	Jagemann	135 gr Hornady FTX	2.12	14.0	1,524	21.0	2,139	45,800
300 Blackout	Jagemann	140 gr Nosler HPBT	1.94	14.0	1,549	16.8	1,835	37,750
300 Blackout	Jagemann	160 gr Hornady FTX	2	14.5	1,567	17.0	1,816	42,787
300 Blackout	Jagemann	150 gr Hornady FMJBT	2.22	15.0	1,601	21.0	2,158	54,800
300 Blackout	Jagemann	180 gr Speer BTSP	2.26	14.0	1,519	17.6	1,820	48,910
300 Blackout	Jagemann	208 gr Hornady HPBT	2.24	N/A	N/A	11.0	1,075	19,700
300 Blackout	Jagemann	220 gr Sierra MK	2.245	10.0	1,013	14.4	1,433	42,245
7.62x39	Lapua	123 gr Berry's TMJ	2.166	18.0	1,916	20.8	2,278	44635
458 SOCOM	SBR	300 gr Hornady JHP	2.02	32.4	1,650	36.0	1,857	33,555
458 SOCOM	Starline	300 gr Sierra Pro	2.04	30.0	1,505	36.0	1,811	34,085
458 SOCOM	SBR	300 gr Barnes TTSX	2.25	32.7	1,674	36.4	1,861	34,943
458 SOCOM	SBR	350 gr SBR FMJ	2.25	31.8	1,565	35.4	1,740	34,368
458 SOCOM	SBR	350 gr SBR JSP	2.12	30.7	1,550	34.1	1,730	34,960
458 SOCOM	Starline	450 gr SBR FMJ	2.25	26.0	1,214	30.0	1,431	34,580
450 Bushmaster	Starline	200 gr Sierra FPJ	2.03	40.0	2,295	45.7	2,514	37,461
450 Bushmaster	Starline	230 gr Sierra RN FMJ	2.13	38.0	2,214	42.7	2,366	38,267
450 Bushmaster	Starline	240 gr Sierra JHC	2.02	35.0	1,997	41.2	2,265	38,087
450 Bushmaster	Starline	240 gr Hornady XTP	2.1	35.0	1,977	41.3	2,229	37,865
450 Bushmaster	Starline	250 gr Hornady XTP	2.03	35.0	1,972	40.9	2,220	38,440
450 Bushmaster	Starline	300 gr Hornady XTP	2.1	30.0	1,650	34.4	1,884	37,813
350 Legend	Starline	147 gr FMJ .355	2.2	22.0	2,019	28.8	2,468	54,710
350 Legend	Starline	140 gr Sierra JHP .357	2.06	22.0	1,994	29.0	2,455	54,475
350 Legend	Starline	158 gr Sierra JSP .357	2.125	22.0	1,952	26.8	2,289	55,000
350 Legend	Starline	158 gr Sierra JHP .357	2.125	22.0	1,976	26.8	2,274	53,235
350 Legend	Starline	170 gr Hornady Interlock SP .355	2.26	24.0	2,037	29.3	2,318	52,745
350 Legend	Starline	180 gr Hornady XTP .357	2.055	22.0	1,913	25.0	2,061	53,765
350 Legend	Starline	245 gr Saeco 352, #10 Saeco	2.26	14.0	1,270	15.7	1,419	52,500

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	1,050	22,600
.300 Blackout	Jagemann	208 Hornady A-MAX	2.210	N/A	N/A	10.2	1,050	24,195
.300 Blackout	Jagemann	150 gr Hornady FMJ	2.100	15.0	1,460	18.0	1,750	45,200
.300 Blackout	Jagemann	110 gr Nosler Varmageddon	2.080	17.0	1753	21.5	2074	38,075
.300 Blackout	Jagemann	125 gr Sierra HP	2.250	16.5	1675	21.5	2027	39,205
.44 REM MAG	Winchester	240 gr Nosler JHP	1.600	22.0	985	25.4	1,138	26,800
.44 REM MAG	Winchester	300 Hornady XTP	1.595	15.0	680	19.5	881	24,600
.30-30 Winchester	Hornady	125 gr Sierra FN	2.425	22.0	2,140	26.2	2,477	40,872
.30-30 Winchester	Hornady	150 gr Sierra FN	2.550	21.0	1,985	24.2	2,256	41,455
.30-30 Winchester	Hornady	170 gr Speer HCFN	2.550	20.0	1,821	23.4	2,105	41,623
.30-30 Winchester	Hornady	170 gr Sierra FN	2.550	20.0	1,833	23.4	2,108	41,952
.458 SOCOM	SBR	300 gr Barnes TTSX	2.25	35.1	1,587	39.0	1,767	34,128
7.62x39	Lapua	123 gr Berry's TMJ	2.166	19.0	1,914	22.8	2,348	43,862
6.8 SPC	Hornady	90 gr Sierra HP	2.24	22.0	2,555	26.5	2,901	54,680
6.8 SPC	Hornady	110 gr Hornady V-Max	2.26	21.0	2,389	24.2	2,625	54,425

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	3,149	23.9	3,280	53,400
.222 Remington	Sellier and Bellot	50 gr SP	2.07	22.4	3,149	23.9	3,247	53,400
.22-250 Remington	Sellier and Bellot	55 gr FMJ	2.35	30.1	3,214	34.7	3,706	58,600
.22-250 Remington	Sellier and Bellot	55 gr SP	2.35	30.1	3,182	34.0	3,674	58,600
5.56mm	FIO	45 gr Ervin TC Frangible	2.23	21.0	2,634	28.5	3,611	N/A
5.56mm	WCC	55 gr Hornady FMJ-BT	2.21	19.0	2,555	26.5	3,333	N/A
5.56mm	WCC	60 gr Hornady Vmax	2.25	19.0	2,481	25.8	3,152	N/A
5.56mm	WCC	60 gr Sierra HP	2.26	19.0	2,532	24.0	3,069	N/A
5.56 mm	WCC	62 gr M855/SS109	2.26	19.0	2,469	25.8	3,148	N/A
5.56mm	WCC	68 gr Hornady HPBT	2.25	19.0	2,504	25.3	3,071	N/A
5.56mm	WCC	70 gr Nosler RDF	2.26	19.0	2,450	24.9	2,981	N/A
5.56 mm	WCC	75 gr BTHP Hornady	2.26	19.0	2,426	23.6	2,822	N/A
5.56mm	WCC	77 gr Sierra MK	2.26	19.0	2,413	23.6	2,783	N/A
.30-30 Winchester	Hornady	125 gr Sierra FN	2.425	26.0	2,137	38.0	2,766	40,650
.30-30 Winchester	Hornady	135 gr Hornady FTX	2.650	26.0	2,147	35.2	2,642	41,220
.30-30 Winchester	Hornady	140 gr Hornady Monoflex	2.570	26.0	2,062	33.7	2,487	41,985
.30-30 Winchester	Hornady	150 gr Sierra FN	2.550	26.0	2,066	34.5	2,527	41,590.0
.30-30 Winchester	Hornady	160 gr Hornady FTX	2.535	26.0	2,066	33.0	2,442	41,030
.30-30 Winchester	Hornady	170 gr Speer HCFN	2.550	26.0	1,999	31.5	2,317	41,530
.30-30 Winchester	Hornady	170 gr Sierra FN	2.550	26.0	1,990	30.5	2,254	41,120
.30-30 Winchester	Sellier and Bellot	150 gr SP	2.52	29.3	2,132	31.6	2,329	45,700
.303 British	Sellier and Bellot	150 gr SP	2.86	40.9	2,608	44.0	2,706	52,200
.303 British	Sellier and Bellot	180 gr FMJ	3.05	38.6	2,362	40.1	2,444	52,200
308 Winchester	Jagemann	150 gr Sierra SBT	2.81	35.0	2,586	43.3	2,955	61,980
308 Winchester	Jagemann	150 gr Hornady FMJBT	2.75	35.0	2,543	42.7	2,924	61,493
308 Winchester	Jagemann	168 gr Hornady Amax	2.81	35.0	2,520	41.2	2,751	61,925
308 Winchester	Jagemann	168 gr Sierra MK	2.8	35.0	2,517	40.0	2,694	62,000
308 Winchester	Jagemann	175 gr Sierra MK	2.8	35.0	2,461	39.5	2,658	61,268
308 Winchester	Jagemann	180 gr Speer BTSP	2.81	35.0	2,426	39.0	2,616	60,700
7.62mm NATO	Fiocchi	147gr FMJ	2.8	42.5	2,746	45.0	2,926	N/A
(22" barrel)	Fiocchi	168 gr Sierra MK	2.8	35.0	2,341	41.5	2,680	N/A
7.62x54R	Sellier and Bellot	174 gr HPBT	3.035	45.5	2,558	47.8	2,657	56,200
7.62x54R	Sellier and Bellot	180 gr SP	2.875	44.8	2,558	47.1	2,624	55,700
7.62x54R	Sellier and Bellot	180 gr FMJ	2.95	44.8	2,509	47.1	2,640	56,500
9.3x62	Sellier and Bellot	285 gr SP	3.27	53.2	2,224	56.3	2,362	56,500
9.3x62	Sellier and Bellot	286 gr Hornady SP	3.13	50.9	2,230	54.8	2,394	55,900
7.62x39	Lapua	123 gr Berry's TMJ	2.166	19.0	1,566	29.5	2,206	36,166
7mm-08	Remington	139 gr Hornady SST	2.8	36.0	2,601	39.8	2,800	60,184
7mm-08	Remington	140 gr Nosler Ballistic Tip	2.8	36.0	2,527	40.0	2,739	59,500
7mm-08	Remington	150 gr Nosler Accubond	2.8	35.0	2,388	38.2	2,631	61,286

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	24 gr Hornady NTX	2.26	26.0	3,908	31.4	4,563	56,940
.204 Ruger	Norma	32 gr Hornady V-max	2.26	24.0	3,521	28.7	4,088	56,604
.204 Ruger	Norma	40 gr Hornady V-max	2.26	23.0	3,260	26.9	3,732	56,910
.204 Ruger	Norma	45 gr Hornady SP	2.26	22.0	3,096	25.2	3,461	56,670
224 Valkyrie	Starline	77 gr Sierra MK	2.26	19.0	2,377	22.5	2,658	53,622
224 Valkyrie	Starline	80 gr Sierra MK	2.260	19.0	2,266	24.3	2,735	54,727
.223 Remington	Remington	50 gr Sierra BK	2.26	22.0	3,000	26.0	3,471	54,932
.223 Remington	Remington	55 gr FMJ	2.245	17.5	2,509	24.5	3,241	54,699
.223 Remington	Remington	60 gr Hornady V-Max	2.245	17.5	2,360	23.8	3,097	54,643
.223 Remington	Remington	62 gr M855	2.245	17.5	2,190	24.1	3,035	54,405
.223 Remington	Remington	69 gr Sierra HPBT	2.245	18.0	2,350	23.0	2,936	53,994
6.5 Grendel	Starline	123 gr Sierra HPBT	2.26	22.0	1918	28.6	2482	51,883
6.5 Grendel	Starline	120 gr Sierra HPBT	2.26	22.0	1974	28.4	2473	51,880
6.5 Grendel	Starline	130 gr Sierra TMK	2.26	22.0	1891	28.2	2406	52,000
6.5 Grendel	Starline	130 gr Nosler Accubond	2.26	22.0	1810	27.4	2267	52,000
6.5 Grendel	Starline	140 gr Hornady ELD-M	2.26	22.0	1868	26.7	2249	51,971

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
6.5 Creedmoor	Starline	85 gr Sierra HP	2.67	38.0	3,257	40.0	3,387	62,000
6.5 Creedmoor	Starline	100 gr Hornady Amax	2.61	37.0	3,053	38.7	3,164	61,245
6.5 Creedmoor	Starline	120 gr Lapua Scenar OTM	2.78	34.0	2,694	35.8	2,842	62,000
6.5 Creedmoor	Starline	123 gr Sierra MK	2.745	35.0	2,720	36.8	2,855	62,000
6.8 REM SPC	Hornady	90 gr Sierra HP	2.26	25.0	2,447	32.0	3,008	54,225
6.8 REM SPC	Hornady	110 gr Hornady BTHP	2.26	25.0	2,380	29.3	2,757	53,958
6.8 REM SPC	Hornady	115 gr Sierra MK	2.26	25.0	2,338	28.5	2,661	55,000
.30-30 Winchester	Hornady	150 gr Sierra FN	2.550	30.0	2,177	35.3	2,462	42,000
.30-30 Winchester	Hornady	160 gr Hornady FTX	2.535	30.0	2,186	32.2	2,333	40,950
.30-30 Winchester	Hornady	170 gr Speer HCFN	2.550	29.0	2,097	31.5	2,237	41,045
.308 Winchester	Winchester	110 gr Speer SP	2.684	46.0	3,075	51.1	3,420	60,405
.308 Winchester	Winchester	125 gr Sierra HP	2.81	44.0	2,915	48.9	3,241	61,225
.308 Winchester	Winchester	130 gr Speer HP	2.688	44.0	2,876	48.9	3,198	61,402
.308 Winchester	Winchester	147 gr FMJ	2.8	42.0	2,710	46.7	3,017	60,914
.308 Winchester	Winchester	168 gr Sierra HPBT	2.81	39.5	2,500	43.0	2,724	61,754
.308 Winchester	Winchester	180 gr Sierra SBT	2.8	38.0	2,463	41.0	2,624	61,587
5.56 mm	FIO	45 gr Ervin TC Frangible	2.23	21.0	2,620	28.5	3,533	N/A
5.56 mm	WCC	55gr Hornady FMJ	2.245	18.0	2,440	27.0	3,460	N/A
5.56 mm	WCC	55 gr MSSS SPBT	2.21	18.0	2,488	26.3	3,425	N/A
5.56 mm	WCC	55 gr MSSS FMJBT	2.22	18.0	2,507	26.6	3,440	N/A
5.56 mm	WCC	62 gr MSSS M855/SS109	2.26	18.0	2,434	25.5	3,239	N/A
5.56 mm	WCC	62 gr MSSS BTHP	2.26	18.0	2,445	25.5	3,249	N/A
5.56 mm	WCC	69 gr Sierra MK	2.245	18.0	2,356	24.7	2,925	N/A
5.56 mm	WCC	75 gr BTHP Hornady	2.25	18.0	2,334	24.3	2,904	N/A
7.62x39	Lapau	123 gr Hornady SST	2.19	20.0	1,547	29.5	2,196	40,710
7mm-08	Remington	139 gr Hornady SST	2.8	36.0	2,460	42.0	2,818	60,956
7mm-08	Remington	140 gt Nosler Ballistic Tip	2.8	36.0	2,390	41.5	2,749	61,006
7mm-08	Remington	150 gr Nosler Accubond	2.8	35.0	2,326	40.8	2,670	61,531

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	27.0	3,715	31.5	4,279	43,370
.204 Ruger	Norma	32 gr Hornady V-max	2.26	26.0	3,507	31.5	4,197	54,675
.204 Ruger	Norma	40 gr Hornady V-max	2.26	24.0	3,140	29.5	3,852	57,293
.204 Ruger	Norma	45 gr Hornady SP	2.26	24.0	3,164	28.0	3,577	56,630
.223 Remington	Winchester	40 gr Hornady V-Max	2.245	22.5	2,778	28.5	3,678	50,500
.223 Remington	Winchester	55 gr FMJ	2.245	24.0	2,940	27.0	3,311	53,500
.223 Remington	Winchester	60 gr Hornady V-Max	2.245	23.0	2,862	26.2	3,123	54,051
.223 Remington	Winchester	62 gr M855/SS109	2.245	23.5	2,802	26.1	3,156	54,600
.223 Remington	Winchester	69 gr Sierra HPBT	2.245	22.0	2,683	25.3	2,998	54,960
.223 Remington	Winchester	77 gr Sierra HPBT	2.245	22.0	2,580	23.5	2,750	54,600
6mm BR Norma	Norma	87 gr Hornady V-max	2.21	25.0	2,433	31.2	3,014	58,550
6mm BR Norma	Norma	90 gr Lapua Scenar-L	2.32	25.0	2,463	31.7	3,002	59,560
6mm BR Norma	Norma	105 gr Hornady BTHP	2.32	25.0	2,332	29.2	2,710	59,850
6mm BR Norma	Norma	105 gr Lapua Scenar	2.32	25.0	2,325	29.3	2,715	59,840
6mm BR Norma	Norma	105 gr Nosler HPBT	2.35	25.0	2,339	29.2	2,724	59,229
6mm BR Norma	Norma	107 gr Sierra MK	2.3	25.0	2,345	29.0	2,669	57,598
243 Winchester	Starline	75 gr Hornady V-max	2.640	35.0	3,138	38.3	3,327	59,335
243 Winchester	Starline	85 gr Sierra Game King	2.575	34.5	3,033	37.6	3,112	59,545
243 Winchester	Starline	87 gr Hornady V-max	2.670	33.0	2,928	36.2	3,068	59,150
243 Winchester	Starline	105 gr Berger Hybrid Target	2.825	30.0	2,613	34.8	2,895	59,943
7mm-08 Winchester	Remington	139 gr Hornady SST Interlock	2.8	36.0	2,455	43.4	2,886	61,426
7mm-08 Winchester	Remington	140 gr Nosler Partition	2.8	36.0	2,450	42.8	2,834	61,736
7mm-08 Winchester	Remington	160 gr Nosler Partition	2.78	36.0	2,333	40.9	2,605	61,056
224 Valkyrie	Starline	60 gr Hornady V-max	2.26	22.0	2,768	26.7	3,151	54,352
224 Valkyrie	Starline	69 gr Sierra MK	2.26	20.0	2,580	25.0	2,985	53,707
224 Valkyrie	Starline	77 gr Sierra MK	2.26	18.0	2,326	23.0	2,728	53,911
6.5 Creedmoor	Starline	85 gr Sierra HP	2.67	39.5	3,231	44.3	3,522	61,960
6.5 Creedmoor	Starline	100 gr Hornady Amax	2.61	38.0	2,945	41.4	3,266	61,838
6.5 Creedmoor	Starline	120 gr Lapua Scenar OTM	2.78	35.0	2,725	37.3	2,884	61,970
6.5 Creedmoor	Starline	123 gr Sierra MK	2.745	36.0	2,749	38.6	2,908	62,000
6.5 Creedmoor	Starline	130 gr Sierra HPBT-CN	2.825	35.0	2,666	36.6	2,785	61,885
6.5 Creedmoor	Starline	140 gr Berger Hybrid Target	2.825	34.0	2,576	36.1	2,683	61,758
6.5 Grendel	Starline	120 gr Sierra HPBT	2.24	25.0	2137	31.0	2626	52,000
6.5 Grendel	Starline	123 gr Sierra HPBT	2.26	25.0	2110	31.4	2625	51,306
6.5 Grendel	Starline	130 gr Sierra TMK	2.26	25.0	2098	29.7	2493	51,065
6.5 Grendel	Starline	130 gr Nosler Accubond	2.26	25.0	2010	29.3	2386	51,345
6.5 Grendel	Starline	140 gr Hornady ELD-M	2.26	25.0	2049	28.3	2330	50,390
6mm ARC	Hornady	75 gr Hornady V-Max	2.090	25.0	2,544	32.8	3,272	47,681
6mm ARC	Hornady	90 gr Lapua Scenar	2.260	24.0	2,421	29.9	2,959	51,002
6mm ARC	Hornady	105 gr Berger VLD-H	2.260	22.5	2,182	28.6	2,697	50,947
6mm ARC	Hornady	105 gr Lapua Scenar	2.260	22.5	2,213	28.1	2,668	51,537

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	2,945	41.4	3,266	61,838
.30-30 Win-chester	Hornady	125 gr Sierra FN	2.425	35.5	2,465	40.0	2,778	37,497
.30-30 Win-chester	Hornady	150 gr Sierra FN	2.550	30.0	2,210	35.6	2,531	39,157
.30-30 Win-chester	Hornady	170 Speer HCFN	2.550	30.3	2,180	34.2	2,375	41,105
.308 Winchester	Remington	147 gr M80 Ball	2.750	44.0	2,752	48.9	3,060	59,671
.308 Winchester	Winchester	150 gr Speer BTSP	2.800	44.0	2,695	48.7	2,982	59,874
.308 Winchester	Winchester	168 gr Nosler BT	2.810	42.0	2,590	45.7	2,798	60,500
.308 Winchester	Lapua	168 gr Sierra HPBT	2.810	42.0	2,575	46.0	2,830	60,777
.308 Winchester	Lapua	175 gr Sierra HPBT	2.810	41.0	2,560	44.8	2,722	61,465
.30-06 Springfield	Federal	150 gr Core-Lokt	3.240	45.0	2,530	52.0	2,923	59,500
.30-06 Springfield	Federal	150 gr FMJBT	3.300	Garand Load	N/A	46.5	2,720	44,768
.30-06 Springfield	Federal	150 gr FMJBT	3.240	45.0	2,580	52.6	3,024	59,495
.30-06 Springfield	Federal	150 gr Speer BTSP	3.275	45.0	2,587	51.7	2,973	59,173
.30-06 Springfield	Federal	168 gr Sierra HPBT	3.315	42.0	2,460	47.5	2,782	59,700
5.56 mm	WCC	55 gr Hornady FMJ-BT	2.245	20.7	2,434	28.5	3,411	N/A
5.56 mm	WCC	69 gr Sierra MK	2.245	18.0	1,825	27.2	2,975	N/A
5.56 mm	LC	77 gr Sierra MK	2.245	18.0	1,785	25.8	2,811	N/A
5.56 mm	WCC	80 gr Sierra MK	2.500	22.0	2,539	24.5	2,792	N/A

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	18.0	2,281	25.2	3,113	54,673
.223 Remington	Winchester	69 gr Sierra MK	2.26	18.0	2,257	24.4	2,905	52,698
.223 Remington	Winchester	77 gr Sierra MK	2.26	18.0	2,170	23.0	2,726	54,125
5.56mm	WCC	55 gr MSSS SPBT	2.21	20.5	2,218	26C	2,878	N/A
5.56mm	WCC	55 gr MSSS FMJBT	2.22	20.5	2,251	26C	2,886	N/A
5.56mm	WCC	62 gr MSSS M855/SS109	2.26	20.5	2,197	26C	2,875	N/A
5.56mm	WCC	62 gr MSSS BTHP	2.26	20.5	2,181	26C	2,849	N/A
5.56mm	WCC	69 gr Sierra MK	2.26	20.0	2,128	26.6C	2,901	N/A
5.56mm	WCC	73 gr Hornady ELD-M	2.25	20.0	2,231	25.3C	2,838	N/A
5.56mm	WCC	75 gr Hornady BTHP	2.25	20.0	2,235	25.0	2,829	N/A
5.56mm	WCC	77 gr Sierra MK	2.26	20.0	2,105	25.5 C	2,723	N/A
5.56mm	WCC	80 gr Sierra MK	2.56	20.0	2,227	25.3	2,793	N/A
224 Valkyrie	Starline	69 gr Sierra MK	2.26	21.0	2,455	26.6	2,932	52,955
224 Valkyrie	Starline	75 gr Hornady ELD-M	2.26	20.0	2,283	26.3	2,840	52,142
224 Valkyrie	Starline	77 gr Sierra MK	2.26	20.0	2,275	26.4	2,855	52,618
224 Valkyrie	Starline	80 gr Sierra MK	2.26	20.0	2,294	26.0	2,790	54,672
224 Valkyrie	Starline	88 gr Hornady ELD-M	2.26	20.0	2,193	24.7	2,633	54,072
6mm BR Norma	Norma	87 gr Hornady V-max	2.21	25.0	2,421	30.9	2,908	59,680
6mm BR Norma	Norma	90 gr Lapua Scenar-L	2.32	25.0	2,424	30.3	2,863	59,920
6mm BR Norma	Norma	103 gr Hornady ELD-X	2.35	24.0	2,310	28.3	2,624	59,235
6mm BR Norma	Norma	105 gr Hornady BTHP	2.32	24.0	2,251	27.7	2,579	59,805
6mm BR Norma	Norma	105 gr Lapua Scenar	2.32	24.0	2,273	27.5	2,572	59,245
6mm BR Norma	Norma	105 gr Nosler HPBT	2.35	24.0	2,258	28.2	2,610	59,120
6mm BR Norma	Norma	105 gr Berger Hybrid Target	2.415	24.0	2,289	28.2	2,612	60,000
6mm BR Norma	Norma	105 gr Berger VLD Hunting	2.37	24.0	2,281	28.2	2,612	59,638
6mm BR Norma	Norma	107 gr Sierra MK	2.3	24.0	2,236	29.0	2,609	59,280
6mm BR Norma	Norma	110 gr Sierra MK	2.475	24.0	2,268	27.7	2,524	58,550
6mm BR Norma	Norma	115gr DTAC	2.34	24.0	2,196	27.0	2,444	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	27.0	2,526	32.8	2,999	58,258
6mm Dasher *24-inch Barrel	Norma	103 gr Hornady ELD-X	2.385	25.0	2,388	31.1	2,764	59,008
6mm Dasher *24-inch Barrel	Norma	107 gr Sierra MK	2.38	25.0	2,375	31.3	2,755	59,043
.243 Winchester	Federal	85 gr Sierra HPBT	2.61	30.0	2,700	36.5	3,123	59,285
.243 Winchester	Federal	90 gr Lapua Scenar L	2.8	30.0	2,708	35.5	3,045	59,420
.243 Winchester	Federal	100 gr Sierra Spitzer	2.6	30.0	2,584	34.5	2,865	59,350
.243 Winchester	Federal	105 gr Berger BT Target	2.75	30.0	2,565	34.3	2,802	58,860
.243 Winchester	Federal	105 gr Berger VLD Hunting	2.825	30.0	2,554	34.8	2,864	60,000
.243 Winchester	Federal	105 gr Hornady HPBT	2.75	30.0	2,589	34.3	2,825	59,590
.243 Winchester	Federal	105 gr Lapua Scenar-L	2.775	30.0	2,589	33.8	2,815	59,345
.243 Winchester	Federal	107 gr Sierra MK	2.8	30.0	2,545	34.2	2,792	58,865
7mm-08 Winchester	Remington	139 gr Hornady SST Interlock	2.8	36.0	2,331	44.2	2,830	61,921
7mm-08 Winchester	Remington	140 gr Nosler Partition	2.8	36.0	2,370	42.6	2,761	60,916
7mm-08 Winchester	Remington	160 gr Nosler Partition	2.78	36.0	2,265	41.0	2,555	60,936
6.5 Creedmoor	Hornady	123 gr Sierra MK	2.745	36.0	2,569	41.4	2,910	61,560
6.5 Creedmoor	Hornady	129 gr Nosler Accubond LR	2.825	35.0	2,531	38.2	2,745	61,045
6.5 Creedmoor	Hornady	140 gr Sierra MK	2.75	34.0	2,379	37.0	2,611	61,945
.308 Winchester	Jagemann	135gr Sierra HP	2.7	42.0	2,589	47.0	2,872	52,200
.308 Winchester	Jagemann	150 gr Sierra SBT	2.81	42.0	2,618	47.4	2,908	61,717
.308 Winchester	Jagemann	150 gr Hornady FMJBT	2.75	42.0	2,587	47.5	2,906	61,802
.308 Winchester	Jagemann	155 gr Sierra SMK	2.81	42.0	2,591	47.0	2,870	62,000
.308 Winchester	Jagemann	165 gr Nosler BT	2.81	41.5	2,510	45.5	2,730	62,000
.308 Winchester	Jagemann	168 gr Hornady Amax	2.81	41.5	2,530	44.7	2,696	61,915
.308 Winchester	Jagemann	168 gr Sierra MK	2.8	41.5	2,535	45.0	2,695	61,745
.308 Winchester	Jagemann	175 gr Sierra MK	2.8	38.0	2,331	42.5	2,596	61,147
.308 Winchester	Fiocchi	185 gr Lapua Scenar	2.81	38.0	2,315	42.4	2,559	62,000
.308 Winchester	Fiocchi	220 gr Sierra MK	2.81	33.0	1,949	39.6	2,319	61,269
.30-06 Springfield	Winchester	150 gr Hornady FMJBT	3.24	46.0	2,612	53.2	2,962	58,885
.30-06 Springfield	Winchester	150 gr Hornady FMJBT	3.24	Garand Load	N/A	47.9	2,700	45,500
.30-06 Springfield	Winchester	150 gr Sierra SBT	3.28	46.0	2,645	53.0	2,967	59,870
.30-06 Springfield	Winchester	150 gr Hornady RN Interlock	3.045	46.0	2,546	54.1	2,928	58,020
.30-06 Springfield	Winchester	155 gr Sierra Palma	3.29	46.0	2,599	53.8	2,941	59,575
.30-06 Springfield	Winchester	168 gr Hornady Amax	3.3	45.0	2,502	50.3	2,768	59,585
.30-06 Springfield	Winchester	168 gr Sierra SMK	3.245	45.0	2,538	49.8	2,764	59,000
.30-06 Springfield	Winchester	168 gr Nosler BT	3.34	43.0	2,490	48.7	2,815	58,055
.30-06 Springfield	Winchester	175 gr Sierra SMK	3.32	45.0	2,533	49.0	2,714	59,900
.30-06 Springfield	Winchester	190 gr Sierra MK	3.275	42.0	2,420	47.3	2,652	59,200
6 mm ARC	Hornady	75 gr Hornady V-Max	2.090	25.0	2,502	30.5	3,049	46,726
6 mm ARC	Hornady	90 gr Lapua Scenar	2.260	24.0	2,360	28.8	2,820	51,112
6 mm ARC	Hornady	105 gr Berger VLD-H	2.260	22.5	2,171	27.7	2,613	51,062
6 mm ARC	Hornady	105 gr Lapua Scenar	2.260	22.5	2,229	27.0	2,564	51,070

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	21.0	2,405	27.2	2,910	54,817
224 Valkyrie	Starline	75 gr Hornady ELD-M	2.26	21.0	2,300	27.0	2,836	54,612
224 Valkyrie	Starline	77 gr Sierra MK	2.26	21.0	2,289	26.9	2,821	54,218
224 Valkyrie	Starline	80 gr Sierra MK	2.26	21.0	2,301	26.3	2,741	54,382
224 Valkyrie	Starline	88 gr Hornady ELD-M	2.26	21.0	2,231	25.2	2,610	55,000
6mm Dasher *24-inch Test Barrel	Norma	87 gr Hornady V-Max	2.26	31.0	2,686	35.0	2,976	60,000
6mm Dasher *24-inch Test Barrel	Norma	90 gr Lapua Scenar L	2.35	30.0	2,660	33.8	2,905	59,245
6mm Dasher *24-inch Test Barrel	Norma	103 gr Hornady ELD-X	2.38	29.0	2,520	32.1	2,716	59,700
6mm Dasher *24-inch Test Barrel	Norma	105 gr Hornady BTHP	2.35	29.0	2,441	32.3	2,677	59,835
6mm Dasher *24-inch Test Barrel	Norma	105 gr Lapua Scenar	2.35	29.0	2,455	31.6	2,675	59,680
6mm Dasher *24-inch Test Barrel	Norma	105 gr Berger VLD Hunting	2.42	29.0	2,430	32.6	2,700	59,850
6mm Dasher *24-inch Test Barrel	Norma	105 gr Berger Hybrid Target	2.43	29.0	2,496	31.6	2,666	58,895
6mm Dasher *24-inch Test Barrel	Norma	105 gr Nosler RDF	2.38	29.0	2,425	33.0	2,688	59,800
6mm Dasher *24-inch Test Barrel	Norma	110 gr Sierra MK	2.5	27.0	2,332	31.2	2,621	59,450
6mm Dasher *24-inch Test Barrel	Norma	115gr DTAC	2.38	27.0	2,252	31.0	2,528	59,425
6mm BR	Norma	87 gr Hornady V-max	2.21	27.0	2,408	32.7	2,849	58,370
6mm BR	Norma	90 gr Lapua Scenar-L	2.32	27.0	2,415	32.5	2,842	60,000
6mm BR	Norma	103 gr Hornady ELD-X	2.35	26.0	2,288	29.7	2,588	58,500
6mm BR	Norma	105 gr Hornady BTHP	2.32	26.0	2,263	29.8	2,563	59,175
6mm BR	Norma	105 gr Lapua Scenar	2.32	26.0	2,272	29.6	2,572	59,795
6mm BR	Norma	105 gr Nosler HPBT	2.35	26.0	2,240	30.4	2,593	59,215
6mm BR	Norma	105 gr Berger Hybrid Target	2.415	26.0	2,256	30.5	2,602	60,000
6mm BR	Norma	105 gr Berger VLD Hunting	2.375	26.0	2,246	30.9	2,614	59,370
6mm BR	Norma	110 gr Sierra MK	2.475	25.0	2,141	30.2	2,528	59,820
6mm BR	Norma	115 gr DTAC	2.37	25.0	2,082	29.3	2,434	59,510
.243 Winchester	Federal	87 gr Hornady V-Max	2.675	33.0	2,688	39.2	3,030	59,265
.243 Winchester	Federal	90 gr Lapua Scenar L	2.8	33.0	2,746	38.2	3,037	59,635
.243 Winchester	Federal	100 gr Sierra Spitzer	2.6	33.0	2,625	37.0	2,873	59,880
.243 Winchester	Federal	105 gr Berger BT Target	2.75	33.0	2,555	37.6	2,839	59,060
.243 Winchester	Federal	105 gr Berger VLD Hunting	2.825	33.0	2,596	37.3	2,854	59,580
.243 Winchester	Federal	105 gr Hornady HPBT	2.75	33.0	2,604	37.0	2,835	59,900
.243 Winchester	Federal	105 gr Lapua Scenar-L	2.775	33.0	2,604	36.5	2,820	59,150
.243 Winchester	Federal	105 gr Nosler RDF	2.8	33.0	2,581	37.2	2,843	59,310
.243 Winchester	Federal	107 gr Sierra MK	2.8	33.0	2,565	37.5	2,820	59,820
.243 Winchester	Federal	115gr DTAC	2.81	33.0	2,555	35.8	2,713	59,770
.308 Winchester	Fiocchi	220 gr Sierra MK	2.81	34.0	1,850	42.9	2,306	60,979

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	36.0	2,711	40.2	3,018	63,670
6XC	Norma	105 gr Lapua Scenar	2.7	36.0	2,688	37.3	2,806	64,815
6XC	Norma	115gr DTAC	2.765	34.0	2,660	37.1	2,871	64,135
6mm Creedmoor	Lapua	105 gr Berger Hybrid Target	2.825	36.0	2,667	40.0	2,903	61,160
.260 Remington	Nosler	123 gr Sierra MK	2.78	39.0	2,725	41.2	2,867	59,800
.260 Remington	Lapua	125 gr Nosler Partition	2.8	35.0	2,575	39.3	2,820	59,600
.260 Remington	Nosler	140 gr Sierra MK	2.775	34.5	2,471	38.0	2,668	60,000
6.5 Creedmoor	Hornady	123 gr Sierra MK	2.745	39.5	2,723	42.5	2,866	60,671
6.5 Creedmoor	Hornady	129 gr Hornady SST	2.825	38.0	2,598	41.5	2,747	60,955
6.5 Creedmoor	Hornady	129 gr Nosler Accubond	2.825	38.0	2,587	42.0	2,781	61,750
6.5 Creedmoor	Hornady	130gr Swift Schirocco	2.825	38.0	2,630	40.3	2,670	59,854
6.5 Creedmoor	Jagemann	130 gr Berger Hy OTM Tac	2.66	38.0	2,588	41.0	2,771	62,000
6.5 Creedmoor	Jagemann	130 gr Nosler RDF HPBT	2.8	38.0	2,591	41.0	2,781	61,955
6.5 Creedmoor	Hornady	130 gr Berger Hybrid	2.825	38.0	2,581	41.5	2,779	61,380
6.5 Creedmoor	Hornady	130 gr Sierra TMK	2.825	38.0	2,569	42.0	2,774	61,100
6.5 Creedmoor	Hornady	140 gr Sierra MK	2.75	36.0	2,549	40.0	2,657	60,950
6.5 Creedmoor	Hornady	140 gr Berger Hy Tgt	2.8	36.0	2,428	40.3	2,644	61,915
6.5 Creedmoor	Jagemann	140 gr Nosler RDF HPBT	2.8	35.0	2,410	39.0	2,630	60,850
6.5 Creedmoor	Jagemann	140 Berger VLD Tgt	2.75	35.0	2,398	39.5	2,648	61,513
6.5 Creedmoor	Hornady	140 gr Hornady ELD-M	2.75	35.0	2,365	40.5	2,614	61,725
6.5 Creedmoor	Hornady	143 gr Hornady ELD-X	2.825	35.0	2,368	39.0	2,545	60,465
7mm-08 Winchester	Remington	139 gr Hornady SST Interlock	2.8	40.0	2,380	47.2	2,804	61,284
7mm-08 Winchester	Remington	140 gr Nosler Partition	2.8	40.0	2,405	45.6	2,747	61,336
7mm-08 Winchester	Remington	160 gr Nosler Partition	2.78	38.0	2,259	43.5	2,558	61,591
.30-06 Springfield	Winchester	150 gr Hornady FMJ-BT	3.23	50.0	2,766	54.3	3,060	59,675
.30-06 Springfield	Winchester	168 gr Sierra MK	3.26	48.0	2,648	52.0	2,886	59,905
.30-06 Springfield	Winchester	180 gr Nosler Accubond	3.34	46.5	2,525	50.0	2,766	59,950
.300 Win Mag	Jagemann	168 gr Sierra MK	3.34	62.0	2,911	67.5	3,113	62,834
.300 Win Mag	Jagemann	190 gr Sierra MK	3.34	58.0	2,774	62.4	2,907	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	42.0	2,743	46.0	3,057	59,875
.260 Rem	Lapua	123 gr Sierra MK	2.8	40.0	2,537	44.7	2,891	58,750
.260 Rem	Lapua	129 gr Nosler Accubond LR	2.78	40.0	2,530	44.5	2,801	59,500
.260 Rem	Lapua	129 gr Nosler Accubond LR	2.8	40.0	2,530	46.0	2,838	60,000
.260 Rem	Lapua	140 gr Sierra MK	2.8	38.0	2,440	42.5	2,721	58,950
.260 Rem	Lapua	143 gr Hornady ELD-X	2.8	38.0	2,451	42.7	2,761	59,850
6XC *24-inch Barrel	Norma	103gr Hornady ELD-X	2.75	38.0	2,841	41.2	3,074	64,850
6XC *24-inch Barrel	Norma	107gr Sierra MK	2.755	38.0	2,803	41.5	3,010	64,180
6XC *24-inch Barrel	Norma	110 gr Sierra MK	2.88	38.0	2,726	41.0	2,974	64,860
6XC *24-inch Barrel	Norma	115gr DTAC	2.765	36.0	2,652	39.5	2,888	64,855
6mm Creedmoor	Lapua	105 gr Berger Hybrid Target	2.825	40.0	2,581	45.2	2,996	61,530
6mm Creedmoor	Lapua	105 gr Hornady BTHP	2.75	40.0	2,692	44.8	2,993	61,950
6mm Creedmoor	Lapua	105 gr Lapua Scenar	2.77	40.0	2,655	44.8	2,977	61,675
6mm Creedmoor	Lapua	105 gr Nosler RDF	2.775	40.0	2,681	45.0	3,006	61,595
6mm Creedmoor	Lapua	110 gr Sierra MK	2.825	40.0	2,585	45.2	2,953	62,000
6mm Creedmoor	Lapua	115 gr DTAC	2.8	39.0	2,611	43.0	2,848	61,100
6mm Dasher *24-inch Barrel	Norma	103 gr Hornady ELD-X	2.385	27.0	2,085	35.9	2,753	55,580
6mm Dasher *24-inch Barrel	Norma	107 gr Sierra MK	2.38	27.0	2,114	35.9	2,729	57,800
6mm Dasher *24-inch Barrel	Norma	110 gr Sierra MK	2.51	27.0	2,086	35.5	2,668	59,200
.243 Winchester	Federal	90 gr Lapua Scenar L	2.8	36.0	2,684	42.0	3,090	59,185
.243 Winchester	Federal	100 gr Sierra Spitzer	2.6	36.0	2,617	42.0	2,961	60,000
.243 Winchester	Federal	105 gr Berger BT Target	2.75	36.0	2,565	42.3	2,910	59,650
.243 Winchester	Federal	105 gr Berger VLD Hunting	2.825	36.0	2,556	42.0	2,874	58,690
.243 Winchester	Federal	105 gr Hornady HPBT	2.75	36.0	2,566	41.2	2,881	58,805
.243 Winchester	Federal	105 gr Lapua Scenar-L	2.775	36.0	2,594	40.8	2,885	59,850
.243 Winchester	Federal	105 gr Nosler RDF	2.8	36.0	2,572	41.6	2,893	59,645
.243 Winchester	Federal	107 gr Sierra MK	2.8	36.0	2,551	41.5	2,855	59,875
.243 Winchester	Federal	115gr DTAC	2.81	36.0	2,543	39.5	2,762	59,130

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	39.0	2,500	43.2	2,801	61,500
6.5 Creedmoor	Hornady	129 gr Hornady SST	2.825	38.0	2,498	42.6	2,774	60,800
6.5 Creedmoor	Hornady	130 gr Sierra TMK	2.825	38.0	2,505	42.6	2,780	61,600
6.5 Creedmoor	Hornady	130 gr Nosler Accubond	2.77	36.5	2,475	42.0	2,726	61,200
6.5 Creedmoor	Jagemann	130 gr Berger Hybrid Tactical	2.66	40.0	2,498	45.3	2,771	60,070
6.5 Creedmoor	Hornady	130 gr Berger Hybrid	2.825	38.0	2,477	43.1	2,801	61,630
6.5 Creedmoor	Hornady	140 gr Sierra MK	2.75	38.0	2,436	41.5	2,641	61,540
6.5 Creedmoor	Hornady	140 gr Hornady ELD-M	2.75	38.0	2,445	41.2	2,639	60,100
6.5 Creedmoor	Hornady	140 gr Hornady SP Interlock	2.75	38.0	2,454	40.7	2,632	61,970
6.5 Creedmoor	Hornady	140 gr Berger Hybrid Target	2.8	38.0	2,353	43.3	2,682	60,908
6.5 Creedmoor	Hornady	143 gr Hornady ELD-X	2.88	38.0	2,430	40.7	2,607	61,600
6.5 Creedmoor	Hornady	147 gr Hornady ELD-M	2.9	37.0	2,388	40.3	2,560	61,000
270 Winchester	Winchester	150 gr Hornady SST	3.2	48.0	2,618	51.7	2,835	63,300
7mm Rem Mag	Jagemann	140 gr Nosler Partition	3.25	59.0	2,832	63.0	3,068	59,200
.30-06 Springfield	Winchester	150 gr Hornady FMJ-BT	3.25	52.0	2,650	59.0	3,079	58,200
.30-06 Springfield	Winchester	168 gr Hornady HPBT	3.27	50.0	2,491	57.0	2,881	59,375
.30-06 Springfield	Winchester	190 gr Sierra MK	3.275	48.0	2,431	54.3	2,718	59,295
.300 Win Mag	Jagemann	150 gr Hornady FMJBT	3.315	68.0	2,880	75.5	3,253	63,580
.300 Win Mag	Jagemann	168 gr Hornady HPBT	3.34	65.0	2,750	72.5	3,084	61,100
.300 Win Mag	Jagemann	180 gr Speer BTSP	3.34	64.0	2,648	71.8	2,969	62,900
.300 Win Mag	Jagemann	220 gr Sierra MK	3.45	58.0	2,582	65.5	2,702	63,426
.300 Win Mag	Jagemann	208 gr Hornady HPBT	3.45	60.0	2,527	68.3	2,787	63,382

SW-BMG D100 Reload Data

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure, PSI
.50 BMG	PMC	648 gr Barnes X-BT	5.42	243.8	2,887	246.9	3,018	53,000
*45" Test Barrel	PMC	750 gr Lapua Bullex-N	5.44	203.7	2,625	222.2	2,822	53,700
*45" Test Barrel	PMC	750 gr Hornady A-Max	5.44	203.7	2,625	220.7	2,822	53,700

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

Black Powder	Bullet Weight	Charge Weight	Velocity (fps)
.357 Magnum	154 Grain	13 Grains	836 fps
.38-40 Winchester	175 Grain	21 Grains	852 fps
.44 Evans	200 Grain	18 Grains	898 fps
.44 Rem Magnum	200 Grain	21 Grains	948 fps
.44-40 Winchester	200 Grain	21 Grains	801 fps
.45 Colt	200 Grain	22 Grains	894 fps
.45 Colt	200 Grain	30 Grains	985 fps
.45 Colt	230 Grain	22 Grains	817 fps
.45-70 Govt.	405 Grain	54 Grains	1,284 fps
.50-70 Govt.	518 Grain	50 Grains	1,257 fps
12 ga Shotgun	1 oz.	51 Grains	1,039 fps

Muzzle Loader	Projectile Weight	Powder Charge by Volume	Velocity (fps)
.45 caliber	195 Grain Power Belt	100 Grains	1,974 fps
.45 caliber	200 Grain Hornady SST/ML	80 Grains	1,881 fps
.45 caliber	200 Grain Hornady SST/ML	100 Grains	2,028 fps
.45 caliber	225 Grain Power Belt	80 Grains	1,752 fps
.45 caliber	225 Grain Power Belt	100 Grains	1,943 fps
.50 caliber	200 Grain T/C Shockwave	80 Grains	1,791 fps
.50 caliber	200 Grain T/C Shockwave	100 Grains	1,963 fps
.50 caliber	240 Grain Hornady XTP	100 Grains	1,944 fps
.50 caliber	240 Grain Hornady XTP	120 Grains	2,015 fps
.50 caliber	250 Grain T/C Shockwave	80 Grains	1,691 fps
.50 caliber	250 Grain T/C Shockwave	100 Grains	1,844 fps
.50 caliber	270 Grain Power Belt	80 Grains	1,618 fps
.50 caliber	270 Grain Power Belt	100 Grains	1,775 fps
.50 caliber	295 Grain Power Belt	80 Grains	1,572 fps
.50 caliber	295 Grain Power Belt	100 Grains	1,714 fps
.50 caliber	348 Grain Power Belt	80 Grains	1,511 fps
.50 caliber	348 Grain Power Belt	100 Grains	1,674 fps

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

Muzzle Loader	Projectile	Starting Charge	Starting Velocity
.50 caliber	200 Grain T/C Shockwave	2 Pellets	1,901 fps
.50 caliber	200 Grain T/C Shockwave	3 Pellets	2,135 fps
.50 caliber	245 Grain Power Belt	2 Pellets	1,793 fps
.50 caliber	245 Grain Power Belt	3 Pellets	2,033 fps
.50 caliber	250 Grain T/C Shockwave	2 Pellets	1,778 fps
.50 caliber	250 Grain T/C Shockwave	3 Pellets	2,018 fps
.50 caliber	270 Grain Power Belt	2 Pellets	1,624 fps
.50 caliber	270 Grain Power Belt	3 Pellets	1,776 fps
.50 caliber	295 Grain Power Belt	2 Pellets	1,758 fps
.50 caliber	300 Grain T/C Shockwave	2 Pellets	1,755 fps
.50 caliber	300 Grain T/C Shockwave	3 Pellets	1,941 fps
.50 caliber	348 Grain Power Belt	2 Pellets	1,518 fps
.50 caliber	348 Grain Power Belt	3 Pellets	1,733 fps

COMPETITIVE SHOOTERS DATA

Clean Shot-Hard Cast Lead Bullet Competition Data

Caliber	Case	Projectile	Min Charge	Min Velocity	Power Factor	Load Length	Max Charge (Grains)	Max Velocity (FPS)	Max Pressure AVG
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

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