SHOOTERS WORLD RELOADING GUIDE



ShootersWorldSC.com

| Shooters World | Lovex | Western Powders | Hodgdon Powders | Winchester Smokeless Propellants |
|-------------------|---------|--------------------|--------------------|-------------------------------------|
| | D013-01 | Nitro 100 | | WAALITE |
| | | | TITEWAD® | |
| | | Competition | | |
| | | · | | WST |
| Clean Shot | D032 | Accurate® No 2 | TITEGROUP® | 231 |
| Ultimate Pistol | | | | Autocomp |
| | | | | WSF |
| Auto Pistol | D036.3 | Accurate® No 5 | | |
| | | | HS 6 | |
| Major Pistol | D037.1 | Accurate® No 7 | | |
| | | | LONGSHOT® | |
| Heavy Pistol | D037.2 | Accurate® No 9 | | |
| | | | LIL'GUN® | |
| | | | H110® | 296 |
| Cowboy | D060 | Accurate®5744 | | |
| | | | H4198 | |
| Blackout | D063 | Accurate® 1680 | | 680 |
| AR Plus | D073.4 | Accurate® 2200 | | |
| Tactical Rifle | | Accurate® 2230 | H335® | |
| | D073.5 | Accurate® 2460 | BL-C(2)® | 748 |
| | | | LEVERevolution® | |
| Match Rifle | D073.6 | Accurate® 2520 | CFE 223 | |
| | S062 | | VARGET® | |
| | | | H380® | |
| | | | | |
| | S065 | | H414® | 760 |
| | | | | |
| | S070 | Accurate® 4350 | H4350 | |
| | | | | |
| | S071 | Accurate® 3100 | H4831® | |
| | | | | SUPREME 780 |

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 Powders | | | | | | | | | | | |
|---------------|-------------------------------|-----------------|-------------|--------------|---------------------|--------|--|--|--|--|--|--|
| Calibers | Clean Shot | Ultimate Pistol | Auto Pistol | Major Pistol | Heavy Pistol | Cowboy | | | | | | |
| .380 Auto | | | | | | | | | | | | |
| 9mm Luger | | | | | | | | | | | | |
| .38 Super | | | | | | | | | | | | |
| .38 Special | | | | | | | | | | | | |
| .357 Sig | | | | | | | | | | | | |
| .357 Magnum | | | | | | | | | | | | |
| .40 S&W | | | | | | | | | | | | |
| 10mm Auto | | | | | | | | | | | | |
| .44 Special | | | | | | | | | | | | |
| .44 Rem. Mag. | | | | | | | | | | | | |
| .45 ACP | | | | | | | | | | | | |
| .45 Colt | | | | | | | | | | | | |
| .454 Casull | | | | | | | | | | | | |
| .50 GI | | | | | | | | | | | | |
| .50 AE | | | | | | | | | | | | |
| .500 S&W | | | | | | | | | | | | |
| Shot Shell | | | | | | | | | | | | |

| | Shooters World Rifle Powders | | | | | | | | | | |
|---------------------|------------------------------|-------|----------|----------------|-------------|--|--|--|--|--|--|
| CALIBERS | Cowboy* | SOCOM | Blackout | Tactical Rifle | Match Rifle | | | | | | |
| 22 Hornet | | | | | | | | | | | |
| 222 Remington | | | | | | | | | | | |
| 223 Remington | | | | | | | | | | | |
| 243 Winchester | | | | | | | | | | | |
| 270 Winchester | | | | | | | | | | | |
| 7mm Remington Mag. | | | | | | | | | | | |
| 300 AAC Blackout | | | | | | | | | | | |
| 30-30 Winchester | | | | | | | | | | | |
| .308 Winchester | | | | | | | | | | | |
| 7.62x39 | | | | | | | | | | | |
| 7.62x54 | | | | | | | | | | | |
| 30-06 Springfield | | | | | | | | | | | |
| 300 Winchester Mag. | | | | | | | | | | | |
| 303 British | | | | | | | | | | | |

| | usable | | unusable |
|--|--------|--|----------|
|--|--------|--|----------|

^{*}Cowboy may be used to make reduced loads in virtually every caliber. *Guidelines for reduced loads are currently being generated.

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: **S060**, **S062**, **S065**, **S070** and **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: Cowboy, 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.shootersworldsc.com where this guide can also be downloaded.

Reloading data on-line: www.shootersworldsc.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.

POWDER DESCRIPTION SHOTGUN POWDERS

Sparta

A fast burning, low density, double base, disc propellant. Application similar to Red Dot and Titewad. Most suitable for shotgun cartridges with 24 to 28 gram loads and for some handgun cartridges.

Clean Shot

A fast burning, low density, double base, spherical propellant. Application similar to Clays, Titegroup, and Bullseye. Exceptionally clean in a myriad of shot shell loads.

HANDGUN POWDERS

Clean Shot

A fast burning, low density, double base, spherical propellant. Application similar to 231, HP-38, Clays, Titegroup, Bullseye, and Accurate No 2. It works well in almost all handgun cartridges with cast or jacketed projectiles, especially where low residue is desirable. Achieves standard velocity in .45 Auto, .40 S&W, and 9mm. Good for reduced loads in magnum cartridges.

Auto Pistol

A relatively slow burning, high density, double base, spherical pistol propellant. Application similar to Accurate No. 5, HS-6 and Longshot. Loads everything from .380 Auto to .44 Remington Magnum.

Major Pistol

High density, double base, spherical propellant. Application similar to Accurate No. 7, 2400, and Blue Dot. Somewhat more specialized in applications than Clean Shot and Auto Pistol. It is well suited to high intensity cartridges such as .357, .41 and .44 Magnum cartridges, when slightly less than full loading density loads are preferred. It is also possible to achieve extremely high velocities in 9mm Luger with this propellant.

Heavy Pistol

High density, double base, spherical propellant. Applications similar to Accurate No. 9, 2400, H110 and 296. Most suitable for magnum pistol applications, as well as the .300 Blackout with supersonic lightweight projectiles. This propellant yields excellent velocities for the pressures generated, with less muzzle flash than other comparable powders. It is intended for use in large capacity handgun cartridges (.357 Magnum, .41 Magnum, .44 Magnum and .454 Casull).

Ultimate Pistol

Perhaps the most versatile of all propellants across the .380 Auto, 9mm Luger, .40 Smith and Wesson, .38 Special, 38 Super, and .45 Automatic cartridges. It provides more reliable ignition and consistent velocity than competitor's propellants of similar gas generation rates. The consistency of charging, deterrent location, burn rate and peculiar quality assurance testing of this propellant have proven to contribute to superior accuracy.

RIFLE POWDERS

Cowboy

High density, double base, tubular propellant similar to Accurate 5744 and IMR 4198. Designed primarily for .45-70 Government, similar straight walled rifle cartridges, and for reduced loads in all caliber rifle cartridges.

Blackout

High density, double base, spherical propellant. Applications similar to Accurate 1680. Suitable for 7.62 x 39, .300 Blackout, .30-30 Winchester, .22 Hornet, heavy magnum pistol calibers, and some straight-walled rifle cartridges. Also suitable for the .222 Remington and the .223 Remington with lighter bullets.

Tactical Rifle

High density, double base, spherical propellant. Application is appropriate for low residue/lowflash ammunition in .223 Remington, 5.56mm, .308 Winchester, 7.62mm, 6.8 SPC, .30-30 Winchester. This propellant is cleaner than 748, BLC(2), H335, surplus WC 844, and has high utility. It can meet 55 and 62-grain 5.56mm velocity and pressure specification, as well as meet the velocity and pressure specification for 175 grain .308 long-range target ammunition. Despite its low charge weight, it has been proven to yield sub-MOA accuracy, at distance, in the 175 grain .308 load. It provides ample port pressure to operate AR-type and "op-rod" type firearms, as well as ample impetus to operate roller-lock operating mechanisms.

AR Plus

High density, double base, spherical propellant. Applications similar to H335, 748, IMR 3031 and Accurate 2230. Designed originally for .223 Remington (5.56 NATO), this propellant can load virtually all .308 Winchester, .223 Remington, .30-30 Winchester, .35 Remington, and similar cartridges.

Match Rifle

Medium-slow burning, high density, double base, spherical propellant. Applications similar to CFE223, Accurate 2520, Reloader 15 and 2000-MR. Yields excellent results in medium capacity cartridges (Match .308 WIN and Match .223 REM class) and certain applications in large bore cartridges. It is the best choice for target shooters using 69 and 77 grain HPBT bullets in the .223 REM and 155,168, 175 and 178 grain HPBT bullets in the .308 Winchester. Match Rifle has a pressure curve appropriate for use with M1 and M14 (M1A) service rifles.

S062

High density, single base, tubular propellant similar to Accurate 4064 most suitable for 8 x 57 IS, .30-06 and other ball cartridges.

S065

High density, single base, extruded propellant. Most suitable for .243 Winchester, 6.5 Creedmoor, .260 Remington, .30-06, .270 Winchester, and some heavy .308 loads. This propellant is slower than Hodgdon Varget, and faster than IMR 4831.

S070

High density, single base, tubular propellant similar to Accurate 4350 giving excellent performance from .243 Winchester and .270 Winchester cartridges to the largest Magnum cartridges.

S071

High density, single base, tubular propellant similar to Accurate 3100 giving excellent performance from .30-06 Springfield cartridges to the largest Magnum cartridges.

D100

Slow burning, high density, double based ball propellant most suitable for .50 Browning cartridge.

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.
- MODE ON 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 centre 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 MEC P/W P/W 2.75" HULL SHOT **PRIMER POWDER** WAD PRESSURE VELOCITY Bushing BUSHING **BUSHING** Winchester AA Rem 209 17.3 gr 21 E1 WAA12 8-1 1/8 oz 6 8954 1177 Winchester AA Rem 209 23 E2 WAA12 8-1 1/8 oz 6 10281 1214 18.4 gr Winchester AA Win 209 17.3 gr 21 E1 WAA12 8-1 1/8 oz 6 8849 1165 1202 Winchester AA Win 209 WAA12 10310 18.4 gr 23 E2 8-1 1/8 oz 6 Fed 12S3 8-1 1/8 oz 6 8850 Remington STS Rem 209 17.3 gr 21 E1 1140 Remington STS Rem 209 18.4 gr 23 E2 Fed 12S3 8-1 1/8 0z 6 10148 1204 1154 21 E1 WAA12 6610 Remington STS Rem 209 17.3 gr 8-1 1/8 oz 6 Remington STS Rem 209 18.4 gr 23 E2 WAA12 8-1 1/8 oz 6 8854 1201 Fed 12S3 8-1 1/8 oz 1133 Remington STS Win 209 17.3 gr 21 E1 6 8810 Remington STS Win 209 18.4 gr 23 E2 Fed 12S3 8-1 1/8 oz 6 9990 1193 Remington STS Win 209 WAA12 8-1 1/8 oz 6720 1149 17.3 gr 21 E1 8810 Remington STS Win 209 23 E2 WAA12 8-1 1/8 oz 6 18.4 gr 1211 Fed 12S3 8-1 1/8 oz 10840 Remington STS Rem 209 21.6 gr 27 G 6 1245 Remington STS Rem 209 21.6 gr 27 G WAA12 8-1 1/8 oz 6 9943 1248 Fiocchi Rem 209 23 E2 Fed 12S3 8-1 1/8 oz 6 5358 1149 18.4 gr Fiocchi Win 209 19.5 gr 24 F Fed 12S3 8-1 1/8 oz 6 6781 1186 Fiocchi Win 209 21.6 gr 27 G Fed 12S3 8-1 1/8 oz 6 8995 1265 Federal Win 209 18.4 gr 23 E2 Fed 12S3 8-1 1/8 oz 6 6265 1133 Federal Win 209 19.5 gr 24 F Fed 12S3 8-1 1/8 oz 6 7038 1176

| 6-12 | 6: | Burst. 199 | Load | Starting | Starting | Max | Max | Max |
|-----------|------------|------------------------|--------|----------|----------|--------|----------|----------|
| Caliber | Case | Projectile | Length | Charge | Velocity | Charge | Velocity | Pressure |
| .380 Auto | Jagemann | 75 gr Sinterfire FP | 0.95 | 4.0 | 862 | 4.5 | 1000 | 20,196 |
| | Jagemann | 90 gr Hornady XTP | 0.965 | 2.3 | 750 | 3.0 | 977 | 21,400 |
| | Jagemann | 95 gr Sierra FMJ | 0.945 | 2.6 | 761 | 3.0 | 932 | 21,375 |
| 9mm Luger | Speer | 90 gr Hornady XTP | 1.085 | 4.4 | 1162 | 5.4 | 1325 | 34,920 |
| | Winchester | 100 gr Sinterfire FN | 1.14 | 3.8 | 1020 | 5.1 | 1224 | 33,500 |
| | Jagemann | 115 gr Berry RN | 1.16 | 3.6 | 951 | 4.7 | 1136 | 34,720 |
| | Winchester | 115 gr Winchester FMJ | 1.16 | 4.0 | 978 | 4.7 | 1130 | 34,680 |
| | Jagemann | 115 gr Hornady XTP | 1.075 | 4.0 | 1005 | 4.5 | 1090 | 35,000 |
| | Jagemann | 124 gr Nosler JHP | 1.1 | 3.2 | 900 | 4.4 | 1063 | 34,985 |
| | Jagemann | 124 gr Hornady XTP | 1.06 | 3.4 | 915 | 4.2 | 1064 | 33,420 |
| | Jagemann | 147 gr Hornady XTP | 1.1 | NA | NA | 3.7 | 910 | 33,500 |
| .38 SPL | Jagemann | 110 gr Sierra JHP | 1.455 | 3.7 | 525 | 5.0 | 1158 | 17,000 |
| | Jagemann | 125 gr Hornady XTP | 1.455 | 3.0 | 660 | 4.6 | 1035 | 17,000 |
| | Jagemann | 125 gr Speer TMJ | 1.455 | 2.6 | 636 | 4.5 | 1052 | 16,495 |
| | Jagemann | 140 gr Hornady XTP | 1.455 | 2.9 | 545 | 4.3 | 937 | 17,000 |
| | Jagemann | 140 gr Sierra JHP | 1.455 | 2.9 | 501 | 4.3 | 921 | 16,876 |
| | Jagemann | 148 gr Berry Wadcutter | 1.15 | NA | NA | 2.7 | 752 | 17000 |
| | Jagemann | 158 gr Sierra JSP | 1.455 | 2.9 | 546 | 3.8 | 786 | 16200 |
| | Jagemann | 158 gr Hornady XTP | 1.455 | 2.9 | 568 | 3.8 | 740 | 16607 |
| | Jagemann | 158 gr Nosler JHP | 1.455 | 3.0 | 591 | 3.8 | 839 | 16748 |
| .40 S&W | Remington | 135 gr Sierra JHP | 1.125 | 6.0 | 1132 | 6.6 | 1225 | 34,400 |
| | Remington | 150 gr Sierra JHP | 1.125 | 5.5 | 1012 | 6.1 | 1119 | 34,722 |
| | Remington | 155 gr Hornady XTP | 1.125 | 5.2 | 1000 | 5.8 | 1100 | 34,706 |
| | Remington | 180 gr Sierra JHP | 1.125 | 4.4 | 842 | 4.8 | 934 | 35,000 |
| | Remington | 180 gr Extreme | 1.125 | 4.4 | 804 | 5.3 | 960 | 34,400 |
| .45 Auto | Winchester | 155 gr Sinterfire FP | 1.21 | 5.0 | 935 | 5.9 | 1100 | 20,055 |
| | Jagemann | 185 gr Zero JHP | 1.21 | 4.8 | 784 | 6.3 | 1029 | 21,000 |
| | Jagemann | 185 gr Hornady XTP | 1.21 | 4.5 | 816 | 5.8 | 1020 | 19,950 |
| | Jagemann | 200 gr Hornady XTP | 1.21 | 5.0 | 825 | 5.6 | 988 | 20,630 |
| | Winchester | 230 gr Winchester RN | 1.2 | 4.5 | 747 | 5.3 | 899 | 19,900 |
| | Jagemann | 230 gr Hornady XTP | 1.21 | 4.3 | 724 | 5.1 | 870 | 20,530 |
| | Jagemann | 230 gr Nosler FMJ | 1.2 | 4.0 | 720 | 5.1 | 870 | 19,500 |

| ULTIMATI | ULTIMATE PISTOL D036-07 RELOAD DATA | | | | | | | | | | | |
|-----------|-------------------------------------|-----------------------------|----------------|--------------------|----------------------|---------------|-----------------|-----------------|--|--|--|--|
| Caliber | Case | Projectile | Load Length | Starting Charge | Starting Velocity | Max Charge | Max Velocity | Max Pressure | | | | |
| .380 Auto | Jagemann | 90 grain Sierra JHP | 0.965 | 3.8 | 872 | 4.3 | 1002 | 20,679 | | | | |
| | Jagemann | 90 grain Hornady XTP | 0.965 | 3.7 | 870 | 4.2 | 1031 | 19,900 | | | | |
| | Jagemann | 95 grain Sierra FMJ | 0.965 | 3.7 | 835 | 4.0 | 939 | 20,377 | | | | |
| | Jagemann | 100 grain Berry RN | 0.960 | 3.7 | 802 | 3.8 | 949 | 21,246 | | | | |
| 9mm Luger | Jagemann | 115 grain Hornady XTP | 1.075 | 4.7 | 975 | 5.7 | 1188 | 34,300 | | | | |
| | Jagemann | 124 grain Hornady XTP | 1.060 | 4.3 | 902 | 5.5 | 1163 | 34,344 | | | | |
| | Jagemann | 147 grain Hornady XTP | 1.100 | n/a | n/a | 4.5 | 995 | 34,269 | | | | |
| | Jagemann | 115 grain Winchester FMJ | 1.160 | 4.6 | 927 | 6.4 | 1237 | 34,500 | | | | |
| | Jagemann | 124 grain Nosler JHP | 1.085 | 4.3 | 878 | 5.6 | 1145 | 34,870 | | | | |
| .38 SPL | Jagemann | 110 grain Sierra JHP | 1.450 | 4.0 | 645 | 6.8 | 1254 | 17,000 | | | | |
| | Jagemann | 125 grain Hornady XTP | 1.455 | 4.0 | 460 | 6.3 | 1092 | 16,700 | | | | |
| | Jagemann | 135 grain Gold Dot | 1.455 | 4.0 | 521 | 5.4 | 966 | 16,400 | | | | |
| | Jagemann | 140 grain Hornady XTP | 1.455 | 4.0 | 665 | 5.6 | 990 | 16,672 | | | | |
| | Jagemann | 158 grain Hornady XTP | 1.450 | 4.0 | 558 | 5.0 | 874 | 17,000 | | | | |
| | Jagemann | 158 grain Nosler JHP | 1.450 | 4.0 | 601 | 5.4 | 961 | 16,699 | | | | |
| .40 S&W | Jagemann | 135 Sierra JHP | 1.125 | 5.5 | 477 | 8.0 | 1303 | 32,300 | | | | |
| | Jagemann | 155 grain Hornady XTP | 1.125 | 4.6 | 682 | 7.7 | 1232 | 31,800 | | | | |
| | Jagemann | 165 grain Sierra JHP | 1.125 | 4.3 | 647 | 6.8 | 1139 | 33,900 | | | | |
| | Jagemann | 180 grain Sierra JHP | 1.125 | 4.0 | 595 | 6.3 | 1049 | 33,500 | | | | |
| | Jagemann | 180 grain Hornady HAP | 1.125 | 3.8 | 630 | 6.0 | 1027 | 31,800 | | | | |
| | Jagemann | 180 Hornady XTP | 1.125 | 4.0 | 618 | 6.4 | 1081 | 34,700 | | | | |
| .45 Auto | Jagemann | 185 grain Hornady XTP | 1.210 | 4.5 | 552 | 8.6 | 1095 | 20,100 | | | | |
| | Jagemann | 200 grain Hornady XTP | 1.210 | 3.9 | 534 | 7.9 | 1025 | 20,618 | | | | |
| | Jagemann | 230 grain Hornady XTP | 1.210 | 3.7 | 480 | 6.7 | 921 | 20,200 | | | | |
| | Jagemann | 230 grain Berry HP | 1.210 | 3.7 | 448 | 7.2 | 940 | 21,000 | | | | |
| | Jagemann | 230 grain Nosler FMJ | 1.210 | 3.7 | 462 | 7.2 | 935 | 20,100 | | | | |
| | Jagemann | 225 Cast RN 20/1 | 1.210 | 4.2 | 510 | 6.8 | 945 | 19,700 | | | | |

| AUTO PI | STOL D036 | -03 RELOAD DATA | | | | | | |
|------------|-----------|-----------------------|----------------|--------------------|----------------------|---------------|-----------------|-----------------|
| Caliber | Case | Projectile | Load Length | Starting Charge | Starting Velocity | Max Charge | Max Velocity | Max Pressure |
| .380 Auto | Jagemann | 90 gr Hornady XTP | 0.965 | 3.5 | 710 | 5 | 1018 | 20,976 |
| | Jagemann | 90 gr Sierra JHP | 0.965 | 3.7 | 710 | 5.3 | 1017 | 21,500 |
| 9mm Luger | Jagemann | 115 gr FMJ | 1.16 | 5 | 905 | 6.8 | 1216 | 34,956 |
| | Jagemann | 115 gr Xtreme FP | 1.16 | 5.5 | 894 | 7 | 1139 | 33,909 |
| | Jagemann | 115 gr Berry | 1.16 | 5 | 895 | 6.9 | 1181 | 34,319 |
| | Jagemann | 115 gr Hornady XTP | 1.075 | 5 | 925 | 6.4 | 1189 | 34,943 |
| | Jagemann | 124 gr Nosler JHP | 1.085 | 4.8 | 890 | 6 | 1110 | 33,850 |
| | Jagemann | 124 gr Hornady XTP | 1.06 | 4.8 | 916 | 5.7 | 1079 | 34,739 |
| | Jagemann | 147 gr Hornady XTP | 1.1 | 4 | 752 | 5.2 | 969 | 35,000 |
| .38 SPL | Jagemann | 110 gr Sierra JHP | 1.455 | 5 | 528 | 8.3 | 1232 | 16,874 |
| | Jagemann | 125 gr Hornady XTP | 1.455 | 4.8 | 710 | 7.5 | 1152 | 17,000 |
| | Jagemann | 140 gr Hornady XTP | 1.455 | 5 | 697 | 6.9 | 1014 | 16,624 |
| | Jagemann | 158 gr Nosler JHP | 1.455 | 4.5 | 525 | 6.7 | 1030 | 17,000 |
| | Jagemann | 158 gr Hornady XTP | 1.455 | 4.5 | 597 | 6.4 | 942 | 17,000 |
| .38 SPL +P | Starline | 110 gr Sierra JHP | 1.455 | NA | NA | 9 | 1348 | 19,683 |
| .38 SPL +P | Starline | 125 gr Hornady XTP | 1.455 | NA | NA | 8.3 | 1244 | 20,000 |
| .38 SPL +P | Starline | 140 gr Hornady XTP | 1.455 | NA | NA | 7.7 | 1134 | 19,553 |
| .38 SPL +P | Starline | 158 gr Hornady XTP | 1.455 | NA | NA | 7 | 1030 | 20,000 |
| .357 Sig | Jagemann | 124 gr Hornady XTP | 1.14 | 8 | 1169 | 9.4 | 1374 | 37,245 |
| | Jagemann | 147 gr Hornady XTP | 1.14 | 7 | 1030 | 8.1 | 1192 | 36,931 |
| .40 S&W | Jagemann | 150 gr Sierra JHP | 1.125 | 7 | 920 | 9 | 1201 | 33,380 |
| | Jagemann | 155 gr Hornady XTP | 1.125 | 6.9 | 963 | 8.3 | 1159 | 32,613 |
| | Jagemann | 180 gr Xtreme FP | 1.125 | 6.5 | 875 | 8.4 | 1130 | 34,812 |
| .45 Auto | Jagemann | 200 gr Hornady XTP | 1.21 | 7.5 | 779 | 10 | 1080 | 20,517 |
| | Jagemann | 230 gr Hornady XTP | 1.21 | 6 | 675 | 8.4 | 950 | 20,182 |
| | Jagemann | 230 gr Nosler FMJ | 1.21 | 6.5 | 740 | 9.3 | 1004 | 21,000 |
| | Jagemann | 230 gr Winchester FMJ | 1.25 | 6.5 | 715 | 9 | 973 | 19,633 |

| HEAVY PIST | OL D037-02 | RELOAD DATA | | | | | | |
|---------------|------------|---------------------|----------------|--------------------|----------------------|---------------|-----------------|-----------------|
| Caliber | Case | Projectile | Load Length | Starting Charge | Starting Velocity | Max Charge | Max Velocity | Max Pressure |
| .300 Blackout | Jagemann | 110 gr Hornady Vmax | 2.04 | 16.0 | 2260 | 17.3 | 2458 | 53,600 |
| | Jagemann | 125 gr Sierra MK | 2.245 | 13.0 | 1842 | 15.7 | 2172 | 54,225 |
| | Jagemann | 140 gr Nosler HPBT | 1.925 | 12.2 | 1735 | 14.4 | 2043 | 54,016 |
| .44 REM MAG | Winchester | 185 gr Hornady XTP | 1.600 | 20.0 | 1392 | 23.3 | 1697 | 35,304 |
| | Winchester | 220 gr Sierra FPJ | 1.600 | 17.9 | 1299 | 21.0 | 1529 | 35,675 |
| | Winchester | 240 gr Nosler JHP | 1.600 | 15.5 | 1080 | 18.8 | 1406 | 35,920 |
| | Winchester | 300 gr Hornady XTP | 1.600 | 12.7 | 978 | 14.9 | 1151 | 35,560 |
| .357 Magnum | Jagemann | 110 gr Sinterfire | 1.590 | 10.0 | 1184 | 13.8 | 1564 | 33,345 |
| | Jagemann | 110 gr Sierra JHP | 1.590 | 14.0 | 1465 | 15.9 | 1725 | 34,632 |
| | Jagemann | 125 gr Speer GDHP | 1.590 | 12.0 | 1255 | 15.3 | 1692 | 34,800 |
| | Jagemann | 140 gr Hornady XTP | 1.590 | 11.0 | 1180 | 14.0 | 1501 | 34,917 |
| | Jagemann | 158 gr Hornady XTP | 1.580 | 10.0 | 1055 | 12.1 | 1296 | 32,726 |
| | Jagemann | 158 gr Nosler JHP | 1.590 | 10.0 | 1078 | 12.2 | 1378 | 34,556 |
| | Jagemann | 158 gr Berry FN | 1.590 | 10.0 | 998 | 12.9 | 1359 | 34,425 |

| DI A CIVEL I | 262 02 03 | 2 2 4 7 4 | | | | | | |
|----------------------|--------------|---------------------|----------------|--------------------|----------------------|---------------|-----------------|-----------------|
| BLACKOUT DO | 063-02 RELOA | D DATA | l a c -l | Chart | Chambin | N.4 | N.4 | N 4 |
| Caliber | Case | Projectile | Load Length | Starting Charge | Starting Velocity | Max Charge | Max Velocity | Max Pressure |
| | | | Length | Charge | velocity | Charge | velocity | Fiessure |
| .300 Blackout | Jagemann | 220 gr Sierra HPBT | 2.050 | n/a | n/a | 10.5 | 1050 | 22,600 |
| | Jagemann | 208 Hornady A-MAX | 2.210 | n/a | n/a | 10.2 | 1050 | 24,195 |
| | Jagemann | 150 gr Hornady FMJ | 2.100 | 15.0 | 1460 | 18.0 | 1750 | 45,200 |
| | | | | | | | | |
| .44 REM MAG | Winchester | 240 gr Nosler JHP | 1.600 | 22.0 | 985 | 25.4 | 1138 | 26,800 |
| | Winchester | 300 Hornady XTP | 1.595 | 15.0 | 680 | 19.5 | 881 | 24,600 |
| .30-30 Winchester | Hornady | 125 gr Sierra FN | 2.425 | 28.0 | 2454 | 30.5 | 2661 | 40,925 |
| | Hornady | 150 gr Sierra FN | 2.550 | 25.0 | 2148 | 27.4 | 2377 | 41,077 |
| | Hornady | 170 gr Speer HCFN | 2.550 | 24.0 | 2040 | 25.9 | 2212 | 41,342 |
| | Hornady | 170 gr Sierra FN | 2.550 | 24.0 | 2011 | 26.2 | 2193 | 40,669 |
| | | | | | | | | |
| .458 SOCOM | SBR | 300 gr Barnes TTSX | 2.25 | 35.1 | 1587 | 39.0 | 1767 | 34,128 |
| TACTICAL RIF | LE D073-08 F | RELOAD DATA | | | | | | |
| Caliber | Case | Projectile | Load Length | Starting Charge | Starting Velocity | Max Charge | Max Velocity | Max Pressure |
| .223 Remington | Remington | 50 gr Sierra BK | 2.26 | 22 | 3000 | 26 | 3471 | 54,932 |
| | Remington | 55 gr FMJ | 2.245 | 17.5 | 2509 | 24.5 | 3241 | 54,699 |
| | Remington | 60 gr Hornady V-Max | 2.245 | 17.5 | 2360 | 23.8 | 3097 | 54,643 |
| | Remington | 62 gr M855 | 2.245 | 17.5 | 2190 | 24.1 | 3035 | 54,405 |
| | Remington | 69 gr Sierra HPBT | 2.245 | 18 | 2350 | 23 | 2936 | 53,994 |
| | | | | | | | | |
| .30-30 Winchester | Hornady | 150 gr Sierra FN | 2.550 | 28 | 2025 | 33.1 | 2410 | 41,115 |
| | | | | ļ | | | | |
| .308 Winchester | Winchester | 110 gr Speer SP | 2.684 | 46 | 3075 | 51.1 | 3420 | 60,405 |
| | Winchester | 125 gr Sierra HP | 2.81 | 44 | 2915 | 48.9 | 3241 | 61,225 |
| | Winchester | 130 gr Speer HP | 2.688 | 44 | 2876 | 48.9 | 3198 | 61,402 |
| | Winchester | 147 gr FMJ | 2.8 | 42 | 2710 | 46.7 | 3017 | 60,914 |
| | Winchester | 168 gr Sierra HPBT | 2.81 | 39.5 | 2500 | 43 | 2724 | 61,754 |

| MATCH RIF | FLE D073-06 R | ELOAD DATA | | | | | | |
|-----------------------|---------------|---------------------|----------------|--------------------|----------------------|---------------|-----------------|-----------------|
| Caliber | Case | Projectile | Load Length | Starting Charge | Starting Velocity | Max Charge | Max Velocity | Max Pressure |
| .223 Remington | Winchester | 40 gr Hornady V-Max | 2.245 | 22.5 | 2778 | 28.5 | 3678 | 50,500 |
| | Winchester | 55 gr FMJ | 2.245 | 24.0 | 2940 | 27.0 | 3311 | 53,500 |
| | Winchester | 60 gr Hornady V-Max | 2.245 | 23.0 | 2862 | 26.2 | 3123 | 54,051 |
| | Winchester | 62 gr M855/SS109 | 2.245 | 23.5 | 2802 | 26.1 | 3156 | 54,600 |
| | Winchester | 69 gr Sierra HPBT | 2.245 | 22.0 | 2683 | 25.3 | 2998 | 54,960 |
| | Winchester | 77 gr Sierra HPBT | 2.245 | 22.0 | 2580 | 23.5 | 2750 | 54,600 |
| | | | | | | | | |
| .30-30 Winchester | Hornady | 125 gr Sierra FN | 2.425 | 35.5 | 2465 | 40.0 | 2778 | 37,497 |
| | Hornady | 150 gr Sierra FN | 2.550 | 30.0 | 2210 | 35.6 | 2531 | 39,157 |
| | Hornady | 170 Speer HCFN | 2.550 | 30.3 | 2180 | 34.2 | 2375 | 41,105 |
| | | | | | | | | |
| .308 Winchester | Remington | 147 gr M80 Ball | 2.750 | 44.0 | 2752 | 48.9 | 3060 | 59,671 |
| | Winchester | 150 gr Speer BTSP | 2.800 | 44.0 | 2695 | 48.7 | 2982 | 59,874 |
| | Winchester | 168 gr Nosler BT | 2.810 | 42.0 | 2590 | 45.7 | 2798 | 60,500 |
| | Lapua | 168 gr Sierra HPBT | 2.810 | 42.0 | 2575 | 46.0 | 2830 | 60,777 |
| | Lapua | 175 gr Sierra HPBT | 2.810 | 41.0 | 2560 | 44.8 | 2722 | 61,465 |
| | | | | | | | | |
| .30-06 Springfield | Federal | 150 gr Core-Lokt | 3.240 | 45.0 | 2530 | 52.0 | 2923 | 59,500 |
| | Federal | 150 gr FMJBT | 3.300 | 46.5 | Garand Load | | 2720 | 44,768 |
| | Federal | 150 gr Speer BTSP | 3.275 | 45.0 | 2587 | 51.7 | 2973 | 59,173 |
| | Federal | 168 gr Sierra HPBT | 3.315 | 42.0 | 2460 | 47.5 | 2782 | 59,700 |

| POWDER SBR - SOCOM 63-01 | | | | | | | | | | |
|--------------------------|-------------|-------------------------|------------------------------|--------------------|----------------------|---------------|-------------------------------|-----------------|--|--|
| <u>Caliber</u> | <u>Case</u> | <u>Projectiles</u> | <u>Load</u> <u>Length</u> | Starting Charge | Starting Velocity | Max Charge | <u>Max</u> <u>Velocity</u> | Max Pressure | | |
| 458 SOCOM | SBR | 300 gr JHP (Hornady) | 2.02 | 32.4 | 1650 | 36.0 gr | 1857 | 33,555 | | |
| 458 SOCOM | SBR | 300 gr TTSX (Barnes) | 2.25 | 32.7 | 1674 | 36.4 gr | 1861 | 34,943 | | |
| 458 SOCOM | SBR | 350 gr FMJ (SBR) | 2.25 | 31.8 | 1565 | 35.4 gr | 1740 | 34,368 | | |
| 458 SOCOM | SBR | 350 gr JSP (SBR) | 2.12 | 30.7 | 1550 | 34.1 gr | 1730 | 34,960 | | |

COMPETITIVE SHOOTERS DATA

Clean Shot-Hard Cast Lead Bullet Competition Data

| Caliber | <u>Case</u> | <u>Projectile</u> | Min Charge | Min Velocity | Power Factor | <u>Load</u> <u>Length</u> | 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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