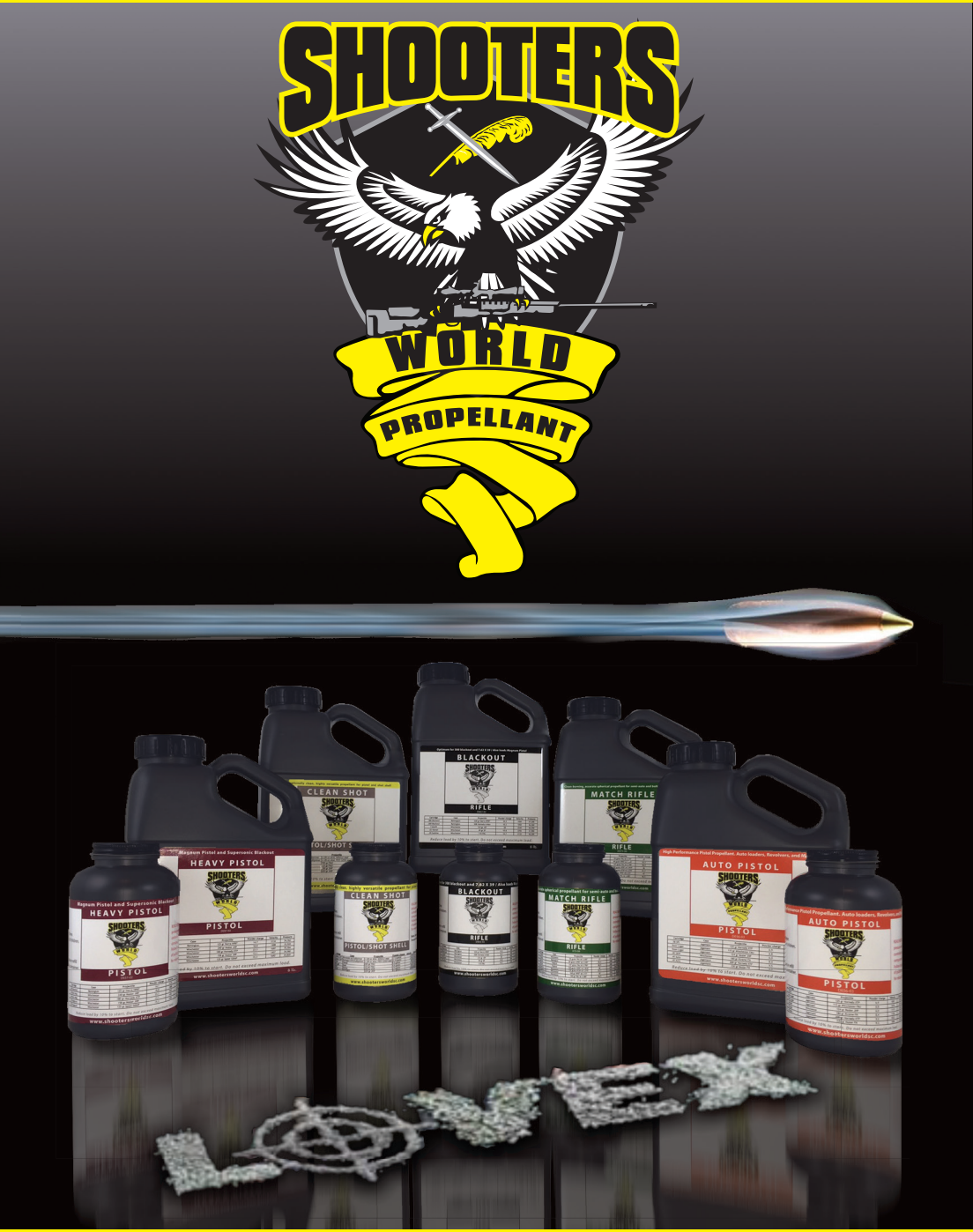
SHOOTERS WORLD RELOADING GUIDE



ShootersWorldSC.com

Shooters World	Lovex	Western Powders	Hodgdon Powders	Winchester Propellants	Alliant	IMR	VihtaVuori
Sparta 100	D013-01	Nitro 100		WAALITE			N310
			TITEWAD®		Red Dot	IMR Red	
		Competition					
				WST	Green Dot	IMR Green	
Clean Shot	D032	Accurate® No 2	TITEGROUP®	231	Bullseye		N320
Ultimate Pistol				Autocomp	Unique		
					Herco		
			Universal				
		Silhouette		WSF			
Auto Pistol	D036.3	Accurate® No 5					3N37
			HS 6		Power Pistol		N330
Major Pistol	D037.1	Accurate® No 7			Blue Dot	IMR Blue	
			LONGSHOT®				
Heavy Pistol	D037.2	Accurate® No 9					
			LIL'GUN®		2400		
			H110®	296		IMR 4227	N110
Buffalo Rifle	D060	Accurate®5744			300-MP		
SOCOM			H4198			IMR 4198	N120
Blackout	D063	Accurate® 1680		680	Reloader 7		
		Accurate® 2200					
	D073.4	Accurate® 2230	H335®		Reloader 10	IMR 3031	N130
Tactical Rifle	D073.01/73.08						
	D073.5	Accurate® 2460	BL-C(2)®	748		IMR 8208	N133
			LEVERevolution®		AR-Comp		N135
Match Rifle	D073.6	Accurate® 2520	CFE 223		Reloader 15	IMR 4064	N140
Precision	S062		VARGET®			IMR 4320	
			H380®				
Long Rifle	S065		H414®	760			N150
					Reloader 17		
SW4350	S070	Accurate® 4350	H4350				
							N550
	S071	Accurate® 3100	H4831®		Reloader 19		N160
				SUPREME 780			
					Reloader 22		N560
							N165
					Reloader 25		N170
			H1000				
D100	D100		H50BMG		Reloader 33		
			US869				20N29

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

Shooters World Pistol Powders						
Calibers	**Clean Shot**	**Ultimate Pistol**	**Auto Pistol**	**Major Pistol**	**Heavy Pistol**	**Buffalo**
.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						

*Clean Shot also used in Shot Shell

Shooters World Rifle Powders									
CALIBERS	Buffalo Rifle*	SOCOM	Blackout	Tactical Rifle	Match Rifle	Precision	Long Rifle	SW 4350	BMG
22 Hornet									
204 Ruger									
222 Remington									
223 Remington									
6mm BR									
243 Winchester									
6mm Remington									
6.5 Grendel									
260 Remington									
6.5 Creedmoor									
6.8 SPC									
270 Winchester									
7mm Remington Mag.									
300 AAC Blackout									
30-30 Winchester									
308 Winchester									
7.62x39									
7.62x54R									
30-06 Springfield									
300 Winchester Mag.									
303 British									
338 Lapua Magnum									
338 Norma Magnum									
38-55 Winchester									
40-65									
45-70 Government									
5.56mm NATO									
458 SOSOM									
50 BMG									

*Buffalo Rifle may be used to make reduced loads in virtually every caliber.

*Guidelines for reduced loads are currently being generated.

usable unusable

INTRODUCTION

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

POWDER INFORMATION

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

SINGLE BASE POWDERS

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

Rifle single base powders: **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:	**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.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

Buffalo

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/low-flash 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.

Precision

High density extruded propellant similar in burn rate to Hodgdon VARGET. Most suitable for .223 Remington through some magnum calibers.

Long Rifle

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.

SW4350

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.

BMG

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. CHECKWEIGHT “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 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 PISTOL RELOAD DATA

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

CLEAN SHOT D032-03 SHOT SHELL RELOAD DATA

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

ULTIMATE PISTOL D036-07 RELOAD DATA

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.380 Auto	Jagemann	90 grain Sierra JHP	0.965	3.8	872	4.3	1002	20,679
	Jagemann	90 grain Hornady XTP	0.965	3.7	870	4.2	1031	19,900
	Jagemann	95 grain Sierra FMJ	0.965	3.3	835	4.0	939	20,377
	Jagemann	100 grain Berry RN	0.960	3.3	802	3.8	949	21,246
9mm Luger	Jagemann	115 grain Hornady XTP	1.075	4.7	975	5.7	1188	34,300
	Jagemann	115 gr LC RNFP 10 Saeco	1.077	4.2	943	5.1	1183	34,740
	Jagemann	122 gr LC RNFP 10 Saeco	1.040	4.3	1009	4.7	1094	32,948
	Jagemann	124 grain Hornady XTP	1.060	4.3	902	5.5	1163	34,344
	Jagemann	147 gr LC RNFP 10 Saeco	1.110	3.7	872	4.2	966	34,470
	Jagemann	147 grain Hornady XTP	1.100	n/a	n/a	4.5	995	34,269
	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
.357 SIG	Jagemann	115 grain Hornady HAP	1.135	6.5	1126	8.3	1405	38,363
	Jagemann	115 grain X-treme HP	1.135	6.5	1131	8.3	1414	36,600
	Jagemann	115 grain Precision Delta HP	1.160	6.5	1135	8.6	1445	39,908
	Jagemann	124 grain Hornady XTP	1.135	6.5	1117	7.7	1335	38,300
	Jagemann	124 grain Berry's HHP	1.145	6.5	1105	8.2	1365	37,525
	Jagemann	147 grain Hornady XTP	1.140	5.0	888	6.7	1140	38,300
.38 SPL	Jagemann	110 grain Sierra JHP	1.450	4.0	645	6.8	1254	17,000
	Jagemann	125 grain Hornady XTP	1.455	4.0	460	6.3	1092	16,700
	Jagemann	135 grain Gold Dot	1.455	4.0	521	5.4	966	16,400
	Jagemann	140 grain Hornady XTP	1.455	4.0	665	5.6	990	16,672
	Jagemann	158 grain Hornady XTP	1.450	4.0	558	5.0	874	17,000
	Jagemann	158 grain Nosler JHP	1.450	4.0	601	5.4	961	16,699
.40 S&W	Jagemann	135 Sierra JHP	1.125	5.5	477	8.0	1303	32,300
	Jagemann	155 grain Hornady XTP	1.125	4.6	682	7.7	1232	31,800
	Jagemann	165 grain Sierra JHP	1.125	4.3	647	6.8	1139	33,900
	Jagemann	180 gr LC RNFP 10 Saeco	1.125	4.5	849	6.4	1068	32,400
	Jagemann	180 grain Sierra JHP	1.125	4.0	595	6.3	1049	33,500
	Jagemann	180 grain Hornady HAP	1.125	3.8	630	6.0	1027	31,800
	Jagemann	180 Hornady XTP	1.125	4.0	618	6.4	1081	34,700
	Jagemann	200 gr LC RN 10 Saeco	1.125	4.0	793	5.5	983	33,700
10mm Auto	Jagemann	155 grain Hornady XTP	1.260	8.1	1261	9.1	1346	36,138
	Jagemann	180 grain Hornady XTP	1.260	6.8	1097	7.8	1190	36,923
.45 Auto	Jagemann	185 grain Hornady XTP	1.210	4.5	552	8.6	1095	20,100
	Jagemann	185 grain LC SWC 10 Saeco	1.255	3.5	578	7.7	1118	18,900
	Jagemann	200 grain Hornady XTP	1.210	3.9	534	7.9	1025	20,618
	Jagemann	200 grain LC SWC 10 Saeco	1.255	3.7	636	7.2	1040	20,465
	Jagemann	230 grain Hornady XTP	1.210	3.7	480	6.7	921	20,200
	Jagemann	230 grain Berry HP	1.210	3.7	448	7.2	940	21,000
	Jagemann	230 grain LC RN 10 Saeco	1.275	3.7	475	6.8	978	20,135
	Jagemann	230 grain Nosler FMJ	1.210	3.7	462	7.2	935	20,100
	Jagemann	225 Cast RN 20/1	1.210	4.2	510	6.8	945	19,700

AUTO PISTOL D036-03 RELOAD DATA

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	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

MAJOR PISTOL, D037-01 RELOAD DATA								
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	1136	34,912
	Jagemann	115 gr Hornady HAP	1.05	7.1	1050	7.8	1230	35,000
	Jagemann	124 gr Copper Solid HP (MSSS)	1.14	5.3	898	6	1019	34,300
	Jagemann	124 gr Hornady XTP	1.1	5.6	896	7.3	1149	34,400
	Jagemann	124 gr Berry Hybrid HP	1.02	5.4	879	7.4	1172	33,700
	Jagemann	124 gr Hornady FMJ	1.1	5.4	862	7.4	1160	33,700
.357 REM Mag	Jagemann	125 gr Hornady XTP	1.59	10.5	1378	11.9	1603	34,200
.40 S&W	Jagemann	150 gr Sierra JHP	1.125	9.1	985	11.4	1244	31,600
	Jagemann	165 gr Sierra JHP	1.125	7.6	955	10.4	1160	33,600
	Jagemann	180 gr Hornady XTP	1.125	7.4	818	9.5	1136	34,400
	Jagemann	180 gr Sierra JHP	1.125	6.9	877	9.8	1122	35,000
	Jagemann	200 gr Hornady XTP	1.125	6.5	740	8.5	1012	33,600
10mm Auto	Jagemann	150 gr Sierra JHP	1.26	8.5	790	13.2	1415	37,073
	Jagemann	165 gr Sierra JHP	1.26	8.2	724	12.2	1311	36,700
	Jagemann	180 gr Sierra JHP	1.26	7.5	690	11.1	1213	37,185
	Jagemann	180 gr Hornady XTP	1.26	7.5	700	11.4	1230	36,928
	Jagemann	180 gr Extreme HP	1.26	7.5	744	11.1	1232	36,941
	Jagemann	180 gr Berry Hybrid HP	1.26	7.5	746	11.8	1268	37,500
	Jagemann	200 gr Hornady XTP	1.26	7	643	9.8	1085	37,096
.44 REM Mag	Jagemann	180 gr Hornady XTP	1.6	12	1211	19.3	1631	32,700
.45 Auto	Jagemann	160 gr Copper Solid HP (MSSS)	1.19	8.5	912	11.5	1191	20,500
	Jagemann	185 gr Copper Solid HP (MSSS)	1.19	8	905	9.6	1076	20,900

** MSSS = Mid South Shooters Supply

HEAVY PISTOL D037-02 RELOAD DATA								
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.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
.357 Magnum	Jagemann	110 gr Sinterfire	1.590	10.0	1184	13.8	1564	33,345
	Jagemann	110 gr Sierra JHP	1.590	14.0	1465	15.9	1725	34,632
	Jagemann	125 gr Speer GDHP	1.590	12.0	1255	15.3	1692	34,800
	Jagemann	140 gr Hornady XTP	1.590	11.0	1180	14.0	1501	34,917
	Jagemann	158 gr Hornady XTP	1.580	10.0	1055	12.1	1296	32,726
	Jagemann	158 gr Nosler JHP	1.590	10.0	1078	12.2	1378	34,556
	Jagemann	158 gr Berry FN	1.590	10.0	998	12.9	1359	34,425
.44 REM MAG	Win-chester	180 gr Hornady XTP	1.600	20.0	1392	23.3	1697	35,304
	Win-chester	220 gr Sierra FPJ	1.600	17.9	1299	21.0	1529	35,675
	Win-chester	240 gr Nosler JHP	1.600	15.5	1080	18.8	1406	35,920
	Win-chester	300 gr Hornady XTP	1.600	12.7	978	14.9	1151	35,560

BLACKOUT D063-02 RELOAD DATA								
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.300 Blackout	Jagemann	220 gr Sierra HPBT	2.050	n/a	n/a	10.5	1050	22,600
	Jagemann	208 Hornady A-MAX	2.210	n/a	n/a	10.2	1050	24,195
	Jagemann	150 gr Hornady FMJ	2.100	15.0	1460	18.0	1750	45,200
.44 REM MAG	Winchester	240 gr Nosler JHP	1.600	22.0	985	25.4	1138	26,800
	Winchester	300 Hornady XTP	1.595	15.0	680	19.5	881	24,600
.30-30 Winchester	Hornady	125 gr Sierra FN	2.425	28.0	2454	30.5	2661	40,925
	Hornady	150 gr Sierra FN	2.550	25.0	2148	27.4	2377	41,077
	Hornady	170 gr Speer HCFN	2.550	24.0	2040	25.9	2212	41,342
	Hornady	170 gr Sierra FN	2.550	24.0	2011	26.2	2193	40,669
.458 SOCOM	SBR	300 gr Barnes TTSX	2.25	35.1	1587	39.0	1767	34,128

TACTICAL RIFLE D073-08 RELOAD DATA								
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.223 Remington	Remington	50 gr Sierra BK	2.26	22	3000	26	3471	54,932
	Remington	55 gr FMJ	2.245	17.5	2509	24.5	3241	54,699
	Remington	60 gr Hornady V-Max	2.245	17.5	2360	23.8	3097	54,643
	Remington	62 gr M855	2.245	17.5	2190	24.1	3035	54,405
	Remington	69 gr Sierra HPBT	2.245	18	2350	23	2936	53,994
6.8 REM SPC	Hornady	90 gr Sierra HP	2.26	25	2447	32	3008	54,225
	Hornady	110 gr Hornady BTHP	2.26	25	2380	29.3	2757	53,958
	Hornady	115 gr Sierra MK	2.26	25	2338	28.5	2661	55,000
.30-30 Winchester	Hornady	150 gr Sierra FN	2.550	28	2025	33.1	2410	41,115
.308 Winchester	Winchester	110 gr Speer SP	2.684	46	3075	51.1	3420	60,405
	Winchester	125 gr Sierra HP	2.81	44	2915	48.9	3241	61,225
	Winchester	130 gr Speer HP	2.688	44	2876	48.9	3198	61,402
	Winchester	147 gr FMJ	2.8	42	2710	46.7	3017	60,914
	Winchester	168 gr Sierra HPBT	2.81	39.5	2500	43	2724	61,754
5.56 mm	WCC	55gr Hornady FMJ	2.245	18	2175	27	3267	
	LC	62gr Ball	2.245	18	2117	26.7	3015	
	WCC	69 gr Sierra MK	2.245	18	2075	24.7	2925	

POWDER SBR - SOCOM 63-01

Caliber	Case	Projectiles	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
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

MATCH RIFLE D073-06 RELOAD DATA

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

PRECISION RIFLE S062 RELOAD DATA								
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.223 Remington	Winchester	60 gr Vmax	2.25	18	2281	25.2	3113	54,673
	Winchester	69 gr Sierra MK	2.26	18	2257	24.4	2905	52,698
	Winchester	77 gr Sierra MK	2.26	18	2170	23	2726	54,125
5.56mm	WCC	69 gr Sierra MK	2.26	20	2128	26.6C	2901	
	WCC	73 gr Hornady ELD-M	2.25	20	2231	25.3C	2838	
	WCC	75 gr Hornady BTHP	2.25	20	2235	25	2829	
	WCC	77 gr Sierra MK	2.26	20	2105	25.5 C	2723	
	WCC	80 gr Sierra MK	2.56	20	2227	25.3	2793	
6mm BR Norma	Norma	107 gr Sierra MK	2.295	24	2299	29.3	2692	58,475
*24-inch Barrel	Norma	103 gr Hornady ELD-X	2.325	24	2310	29.2	2730	59,000
6mm Dasher	Norma	87 gr Hornady V-max	2.25	27	2526	32.8	2999	58,258
*24-inch Barrel	Norma	103 gr Hornady ELD-X	2.385	25	2388	31.1	2764	59,008
	Norma	107 gr Sierra MK	2.38	25	2375	31.3	2755	59,043
6.5 Creedmoor	Hornady	123 gr Sierra MK	2.745	36	2569	41.4	2910	61,560
	Hornady	129 gr Nosler Accu-bond LR	2.825	35	2531	38.2	2745	61,045
	Hornady	140 gr Sierra MK	2.75	34	2379	37	2611	61,945
.308 Winchester	Jagemann	168 gr Sierra MK	2.8	41.5	2535	45	2695	61,745
	Jagemann	175 gr Sierra MK	2.8	38	2331	42.5	2596	61,147
.30-06 Springfield	Winchester	168 gr Nosler BT	3.34	43	2490	48.7	2815	58,055
	Winchester	190 gr Sierra MK	3.275	42	2420	47.3	2652	59,200

LONG RIFLE S065-01 RELOAD DATA

Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.260 Reming-ton	Nosler	123 gr Sierra MK	2.78	39	2725	41.2	2867	59,800
	Lapua	125 gr Nosler Partition	2.8	35	2575	39.3	2820	59,600
	Nosler	140 gr Sierra MK	2.775	34.5	2471	38	2668	60,000
6.5 Creedmoor	Hornady	123 gr Sierra MK	2.745	39.5	2723	42.5	2866	60,671
	Hornady	129 gr Hornady SST	2.825	38	2598	41.5	2747	60,955
	Hornady	129 gr Nosler Accubond	2.825	38	2587	42	2781	61,750
	Hornady	130gr Swift Schirocco	2.825	38	2630	40.3	2670	59,854
	Hornady	130 gr Berger Hybrid	2.825	38	2581	41.5	2779	61,380
	Hornady	130 gr Sierra TMK	2.825	38	2569	42	2774	61,100
	Hornady	140 gr Sierra MK	2.75	36	2549	40	2657	60,950
.30-06 Springfield	Winchester	150 gr Hornady FMJ-BT	3.23	50	2766	54.3	3060	59,675
	Winchester	168 gr Sierra MK	3.26	48	2648	52	2886	59,905
	Winchester	180 gr Nosler Accubond	3.34	46.5	2525	50	2766	59,950
.300 Win Mag	Jagemann	168 gr Sierra MK	3.34	62	2911	67.5	3113	62,834
	Jagemann	190 gr Sierra MK	3.34	58	2774	62.4	2907	62,234

BUFFALO RIFLE D060-01 RELOAD DATA

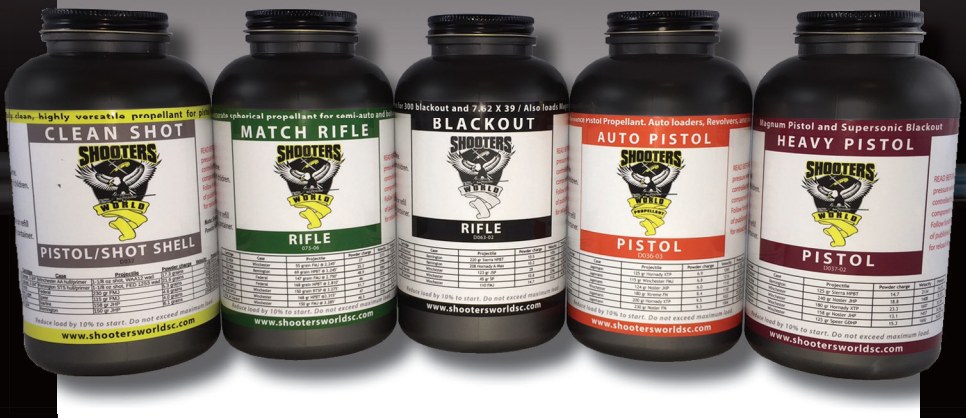
Caliber	Case	Projectile	Load Length	Starting Charge	Starting Velocity	Max Charge	Max Velocity	Max Pressure (PSI)
.38-55	Starline	255gr LC RNFP 10 Saeco	2.57	18	1266	24	1646	29600
.40-65	Starline	250 gr LC RNFP 10 Saeco	2.47	27	1594	31.8	1846	28000
.45-70	Starline	300 gr LC RNFP 10 Saeco	2.55	30	1449	40.5	1902	27300
	Starline	405 gr LC RNFP 10 Saeco	2.55	30	1425	34.5	1608	28000
	Starline	500 gr LC RNFP 10 Saeco	2.55	22	1060	28.7	1368	27460

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

SHOOTERS WORLD PROPELLANT



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