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**LOADING RECOMMENDATIONS FOR USE ONLY IN FIREARMS**  
**MANUFACTURED BY FREEDOM ARMS INC. & CHAMBERED FOR 454 CASULL™**  
**AND USING THE FREEDOM ARMS LINE OF PREMIUM HARD CORE BULLETS.**

**WARNING:**

THIS RELOADING INFORMATION IS PROVIDED AS A SUPPLEMENT TO ASSIST PROFICIENT HANDLOADERS IN FINDING SOME SUITABLE LOADS FOR THEIR NEEDS. THERE ARE MANY GOOD HANDBOOKS AVAILABLE FOR THE BEGINNING HANDLOADERS. IT IS SUGGESTED THAT SOMEONE STARTING OUT, OBTAIN AND STUDY ONE OF THESE MANUALS. MOST FIREARMS DEALERS CAN PROVIDE THE MANUALS AND TECHNICAL SUPPORT TO ASSIST THE BEGINNING HANDLOADERS.

PLEASE PROCEED WITH CAUTION. MAKE THE SHOOTING SPORTS SAFE AND ENJOYABLE FOR ALL OF THOSE THAT CHOOSE TO PARTICIPATE IN THIS FASCINATING AND EXCITING SPORT.

DUE TO THE INABILITY OF **FREEDOM ARMS™** TO CONTROL RELOADING PROCEDURES, USE THE RECOMMENDATIONS ONLY IN FIREARMS THAT ARE IN GOOD, AND SAFE MECHANICAL CONDITION, AND CHAMBERED BY FREEDOM ARMS FOR 454 CASULL. THE INDIVIDUAL ASSUMES ALL OF THE RISKS OF USE IN ANY WAY AND MUST CONFORM WITH SAFE RELOADING PRACTICES. FAILURE TO DO SO MAY RESULT IN SERIOUS PERSONAL INJURY AND/OR DEATH TO THE INDIVIDUAL(S) OR BYSTANDERS.

**FREEDOM ARMS ACCEPTS NO LIABILITY IN ANY WAY, FOR THE USE OF THIS DATA.**

PRESSURE DATA WAS DEVELOPED AND SUBMITTED BY THE BALLISTICS LABS OF:  
ACCURATE ARMS COMPANY INC., HODGDON POWDER COMPANY, AND HORNADAY MANUFACTURING COMPANY.

**BALLISTICS' COMPARISON CHART. FOR REFERENCE ONLY!**

<u>CALIBER</u>	<u>BULLET SPECS.</u>	<u>MUZZLE VELOCITY</u>	<u>MUZZLE ENERGY</u>	<u>MID RANGE 100 YD'S. TRAJECTORY</u>
357 MAGNUM	158 JHP	1235 F.P.S.	535 FT-LBS.	3.5"
44 MAGNUM	240 JHP	1180 F.P.S.	741 FT-LBS.	3.7"
45 LONG COLT	255LRN	860 F.P.S.	420 FT-LBS.	6.1"
454 CASULL	240 JHP	1875 F.P.S.	1884 FT-LBS.	1.3"

**LOADING RECOMMENDATIONS**

**FOR ONLY THE FREEDOM ARMS 454 CASULL™**

ALL VELOCITIES ARE FOR : 7.5" PRESSURE BARREL.~  
 BULLET DIAMETERS ARE : .451 / .452  
 PRIMER SIZE : SMALL RIFLE REM. # 7 1/2™  
 CASE TRIM LENGTH : 1.380"  
 MAXIMUM CASE LENGTH : 1.385"  
 MAXIMUM O.A.L. LENGTH : 1.765"

**~Note:**

Data work up done in a Standard Receiver Pressure Barrel.

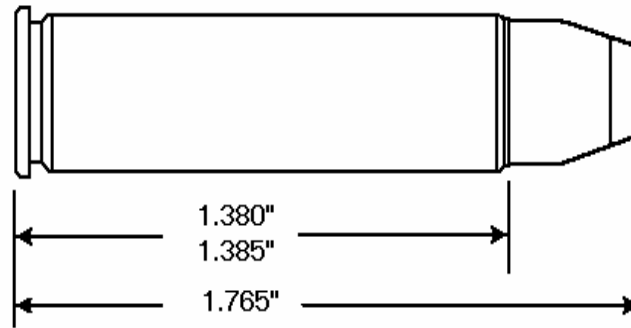
Revolver velocities will be different depending on barrel length.

A good rule of thumb to go by is: Expect a 50 to 75 f.p.s velocity difference, per barrel length from the published data below. (Using a 7.5" barrel for reference.)

**Example:**

A 6" barrel would be approximately 50 to 75 f.p.s. **slower** than listed below.

A 10" barrel would be approximately 50 to 75 f.p.s. **faster** than listed below.



**STARTING LOADS** **MAXIMUM RECOMMENDED LOADS**

Bullet	Powder	Wt. IN Grains	Muzzle Velocity	C.U.P.	WT.IN GRAINS	MUZZLE VELOCITY	C.U.P.
<b>FREEDOM ARMS™</b>							
FA240JHP	H4227	29.0	1421	33,800	34.0	1815	41,400
FA240JHP	H110	36.0	1889	44,700	39.0	2090	54,100
+FA240JHP	H110	36.0	1889	44,700			
FA240JHP	HS7	19.0	1352	38,400	25.5	1746	50,100
FA240JHP	HS6	17.0	1277	34,600	21.5	1641	44,600
FA240JHP	HP38	9.0	852	26,600	13.5	1421	38,400
FA240JHP	W296	36.0	1875	45,200	38.0	2004	53,400
FA240JHP	W571	19.0	1395	38,800	25.5	1740	50,600
FA240JHP	W540	17.0	1274	34,600	21.5	1629	44,200
FA240JHP	W231	9.0	844	25,200	13.5	1399	37,600
FA240JHP	2400	26.0	1639	38,000	30.0	1886	53,700
FA240JHP	BLUE DOT	21.0	1588	37,400	25.0	1896	55,100
FA240JHP	UNIQUE	14.0	1367	33,900	16.5	1580	49,700
FA240JHP	BULLSEYE	7.0	842	15,700	11.0	1334	32,300
FA240JHP	A.A. NO. 9	23.5	1439	21,500	+33.8	1875	56,800
FA240JHP	A.A. 1680	34.0	1349	17,100	38.0	1769	46,500
FA240JHP	N350	13.0	1280	25,000	17.2	1564	48,660
FA240JHP	N110	27.0	1655	27,000	31.0	1877	48,040

**STARTING LOADS MAXIMUM RECOMMENDED LOADS**

Bullet	Powder	Wt. IN Grains	Muzzle Velocity	C.U.P.	WT.IN GRAINS	MUZZLE VELOCITY	C.U.P.
FREEDOM ARMS™							
FA260JFP	H4227	28.0	1309	34,000	33.0	1759	46,000
FA260JFP	H110	34.0	1790	44,600	37.0	2005	53,800
+ FA260JFP	H110	35.0	1825				
FA260JFP	HS7	17.0	1228	36,000	24.0	1701	51,700
FA260JFP	HS6	16.0	1181	33,800	20.5	1562	44,200
FA260JFP	HP38	8.5	811	27,700	12.5	1248	36,600
FA260JFP	W296	34.0	1789	44,400	37.0	1977	53,100
FA260JFP	W571	17.0	1234	36,000	24.0	1689	51,400
FA260JFP	W540	16.0	1188	34,000	20.0	1522	43,400
FA260JFP	W231	8.5	815	27,400	12.5	1244	36,700
FA260JFP	2400	25.0	1538	35,000	29.0	1780	51,800
FA260JFP	BLUE DOT	18.0	1429	38,800	22.0	1704	53,700
FA260JFP	UNIQUE	12.0	1220	33,600	15.0	1452	46,600
FA260JFP	BULLSEYE	7.0	829	16,100	11.0	1302	34,100
FA260JFP	A.A NO. 9	22.5	1433	25,000	+32.0	1800	57,800
FA260JFP	A.A 1680	34.0	1376	18,600	38.5	1780	50,800
FA260JFP	N110	26.0	1575	25,300	30.4	1816	48,820
FA300JFP	H4227	27.0	1494	41,400	30.0	1634	53,700
FA300JFP	H110	28.5	1589	44,400	31.5	1780	55,000
+FA300JFP	H110	31.0	1625				
FA300JFP	HS7	16.0	1111	33,400	22.0	1501	50,200
FA300JFP	HS6	15.0	1084	31,100	19.0	1450	46,200
FA300JFP	HP38	8.5	820	32,000	11.5	1076	43,200
FA300JFP	W296	28.0	1537	41,000	31.0	1750	54,800
FA300JFP	W571	16.0	1107	33,000	22.0	1494	50,700
FA300JFP	W540	15.0	1100	32,600	19.0	1440	46,000
FA300JFP	W231	8.5	824	31,800	11.5	1062	42,400
FA300JFP	2400	24.0	1461	42,000	27.0	1656	55,000
FA300JFP	BLUE DOT	16.0	1240	39,100	19.0	1534	54,000
FA300JFP	UNIQUE	10.0	1049	30,600	14.0	1275	38,600
FA300JFP	BULLSEYE	6.5	804	20,100	9.5	1026	33,400
FA300JFP	A.A. NO. 9	20.0	1177	17,100	+27.5	1625	51,900
FA300JFP	A.A. 1680	31.1	1346	27,300	34.5	1622	54,500
FA300JFP	N110	24.0	1505	34,500	26.6	1634	49,380
FA300JFP	N120	27.0	1290	29,300	31.0	1491	43,760

**NOTE:**

+ Factory Equivalent loads.

Pressure Testing was done with a 7 1/2" Pressure barrel. A 7 1/2" Revolver was used where no pressure is indicated.

**FAVORITE LOADS OR NOTES:**

## TECHNICAL TIPS FOR RELOADING THE 454 CASULL™

### TIP #1: Magnum primers are recommended for reloading for the 454 Casull.™-

Magnum primers perform more reliably at temperatures below zero degrees F.. Magnum primers will most often give more uniform velocities in magnum pistol loads using slow powders, and heavy bullets. More importantly the heavier construction of the primer cup prevents metal flow back, and provides a more positive ignition. **Remember to always seat the primer below the case head to prevent recoil from firing the cartridge while not aligned with the barrel.**

### TIP #2: An important SAFETY FACT to remember:

When loading slow burning ball powders in reduced loads, **NEVER** load cases below **90%** of capacity. Powders like H110 or W296 are prime examples of this condition. The reduced loads are harder to ignite by the primer, and sometimes **NEVER** ignite at all. This creates a **DANGEROUS** condition. What happens next, is that after the gun is fired and no report is heard, the primer pushes the bullet part way into the barrel. Another round is rotated into position after the first round. When the firearm is fired again with the barrel obstructed by the first round's bullet, ***damage to the firearm and injury to the user generally results.***

### TIP #3: Reloading dies?

The use of dies other than specified for the 454 CASULL™ ***IS NOT RECOMMENDED!*** Reloading dies manufactured for the 454 CASULL™ have different internal dimensions than 45 Long Colt dies. The two main differences are: **1.>** The crimp die is different than the standard crimp die in a way that allows a tapered roll crimp to retain the heavier bullets at the higher velocities. **2.>** The sizing die is smaller in diameter to help in the retention of the heavier bullets. Also the longer length allows full length sizing of the longer 454 case.

**NOTE:** ALWAYS DO THE BULLET SEATING AND CRIMPING IN TWO STEPS. THIS REDUCES THE CHANCE OF CASE SIDE WALL BULGING WHEN APPLYING THE HEAVY CRIMPS

### TIP #4: **AFTER REFERRING TO YOUR FAVORITE RELOADING MANUAL.**

An important fact to remember while loading above 1400 F.P.S..

The construction of the bullet is very important. The intent of the final loaded round is also important, and needs to be considered also. Most commercially made pistol bullets available today are designed for expansion at velocities below 1400 F.P.S. Using bullets above this velocity results in poor accuracy, because the bullets can not withstand the higher pressures generated at these higher velocities. The deformation of the bullets base when fired results in poor accuracy. The higher velocities also cause bullet jacket separation and bullet weight loss, during uncontrolled expansion. When the pressure is high enough the jacket could separate from the bullet in the cylinder, or in flight.

ALSO ANOTHER IMPORTANT FACT IS, THE FASTER THE VELOCITY AND THE SOFTER THE BULLET, THE QUICKER THE FORCING CONE AREA IN THE BARREL WILL WEAR OUT.

**NEVER EXCEED ANY MANUFACTURER'S RECOMMENDATIONS FOR VELOCITY MAXIMUMS!**

## WARNING !

Discharging firearms in poorly ventilated areas, cleaning firearms, or handling ammunition may result in exposure to lead and other substances known to cause birth defects, reproductive harm, and other serious physical injury. Have adequate ventilation at all times. Wash hands thoroughly after exposure.

**KEEP ALL RELOADING COMPONENTS, AMMUNITION AND FIREARMS OUT OF REACH OF CHILDREN AT ALL TIMES!**