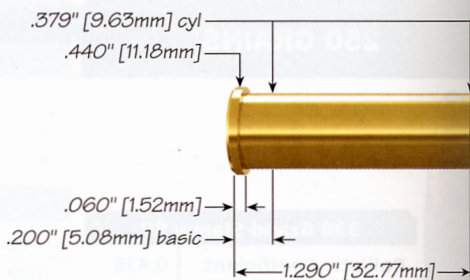


357 MAGNUM (RIFLE)

Alternate Names:	357 S&W Magnum
Parent Cartridge:	38 Special
Country of Origin:	USA
Year of Introduction:	1935
Designer(s):	Smith & Wesson
Governing Body:	SAAMI/CIP



CARTRIDGE CASE DATA

Case Type:	Rimmed, straight		
Average Case Capacity:	26.2 grains H ₂ O	Max. Cartridge OAL:	1.590 inch
Max. Case Length:	1.290 inch	Primer:	Small Pistol
Case Trim to Length:	1.280 inch	RCBS Shell holder:	# 6
Current Manufacturers:	Speer, Federal, Remington, Hornady, Winchester, Cor-Bon, Black Hills, Lapua, PMC, Magtech, Aguila, Fiocchi, IMI, Prvi Partizan		

BALLISTIC DATA

Max. Average Pressure (MAP):	35,000 psi, 45,000 CUP	Test Barrel Length:	18.0 inch
Rifling Twist Rate:	1 turn in 16 inch (rifle); 1:18.75 (handgun)		
Muzzle velocities of factory loaded ammunition	Bullet Wgt.		Muzzle velocity
	158-grain		1,830 fps
	Muzzle velocity will decrease approximately 5 fps per inch for barrels less than 18 inches.		

HISTORICAL NOTES

- In the Old West, a popular practice was to carry a carbine and a revolver of the same chambering to eliminate having to carry two different types of ammunition.
- This practice remains popular today for Cowboy Action Competition and for personal defense and varmint hunting (some would say the last two are the same).

BALLISTIC NOTES

- When a 357 Magnum cartridge is fired from an 18 inch length carbine barrel rather than from a handgun barrel, muzzle velocity is increased substantially. Typically the increase is approximately 150%. For example:

Bullet Wgt. Grains	Muzzle Velocity 18 inch bbl. Feet per second	Muzzle Velocity 4 inch bbl. Feet per second	Variance + / - %
110	2,467	1,295	+190%
125	2,125	1,450	+147%
140	1,934	1,290	+150%
158	1,738	1,235	+141%
170	1,684	1,145	+147%

- Speer offers a comprehensive line of GDHP, DCSP as well as other JHP and/or JSP bullets in each of these weights. See loading data for more information.
- We recommend using these loads only for hunting varmints, pests, and predators. They should not be used on deer or larger game.

TECHNICAL NOTES

- Many 357 Magnum cartridge cases are nickel-plated to assist extraction from revolvers. The nickel-plating process may cause hydrogen embrittlement of the case mouths. After four to six reloads, expect case mouth splits. When this occurs, avoid the temptation to try to get one more loading out of such cases. Destroy them immediately.
- Aluminum cases in 357 Magnum are not reloadable.
- Carbine loads must be loaded to the same industry standard 35,000 psi MAP levels as used for 357 Magnum handgun ammunition. Do not attempt to develop special carbine loads that depart from the MAP limits or loading data.

HANDLOADING NOTES

- As these cartridges will be fired in lever-action rifles with tubular magazines, use only flat nose soft point or hollow point bullets to prevent magazine tube explosions.
- Bullets should be crimped firmly in the case mouth to prevent elongation from recoil or being pushed down inside the case by the magazine spring and remaining cartridges.
- Never load Total Metal Jacket (TMJ) or pointed bullets for this application.
- Never loadunjacketed lead bullets for this application. The high muzzle velocities will rapidly cause the buildup of lead deposits in the bore.
- Never load less than the minimum charges shown in the loading data as the small charge of propellant may not be sufficient to push the bullet completely down the barrel.
- We recommend using only new or once-fired cases for maximum loads.

SAFETY NOTES

SPEER 158-grain JSP @ a muzzle velocity of 1,738 fps:

- Maximum vertical altitude @ 90° elevation is 4,911 feet.
- Maximum horizontal distance to first impact with ground @ 32° elevation is 2,241 yards.
- Do not fire handloads with CCI plastic shot capsules from carbine barrels.

110 GRAINS**DIAMETER****SECTIONAL DENSITY**

.357"

0.123

38 UCHP**Ballistic Coefficient** 0.113**COAL Tested** 1.575"**Speer Part No.** 4007

NOTE: Do not use the 110-grain Gold Dot Short Barrel bullet (#4009). It is not intended for 357 Magnum pressures.

			Starting Charge		Maximum Charge	
Propellant	Case	Primer	Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Vihtavuori N110	Speer	CCI 500	19.5	2392	21.5 C	2542
Hodgdon H110	Speer	CCI 550	21.0	2268	23.0 C	2416
Winchester 296	Speer	CCI 550	21.0	2173	23.0 C	2381
Alliant 2400	Speer	CCI 500	17.5	2104	19.5	2348

125 GRAINS**DIAMETER****SECTIONAL DENSITY**

.357"

0.140

38 GDHP**Ballistic Coefficient** 0.140**COAL Tested** 1.580"**Speer Part No.** 4012**38 JHP****Ballistic Coefficient** 0.129**COAL Tested** 1.575"**Speer Part No.** 4013

NOTE: 125-grain TMJ # 4015 is not suitable for use in tubular magazines.

			Starting Charge		Maximum Charge	
Propellant	Case	Primer	Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Hodgdon H110	Speer	CCI 550	18.0	1946	20.0 C	2167
Winchester 296	Speer	CCI 550	18.3	1963	20.3 C	2167
Vihtavuori N110	Speer	CCI 500	16.8	1967	17.8	2076
Alliant 2400	Speer	CCI 500	16.5	1868	17.5	2051
Accurate No. 7	Speer	CCI 500	12.0	1583	13.5	1780

WARNING! Maximum loads should be used with CAUTION • C = Compressed Load

158 GRAINS**DIAMETER**

.357"

SECTIONAL DENSITY

0.177

**38 JHP**

Ballistic Coefficient	0.163
COAL Tested	1.570"
Speer Part No.	4211

**38 DCHP**

Ballistic Coefficient	0.168
COAL Tested	1.575"
Speer Part No.	4215

**38 JSP**

Ballistic Coefficient	0.164
COAL Tested	1.570"
Speer Part No.	4217

NOTE: #4207 158-grain TMJ, not suitable for tubular magazines

Propellant	Case	Primer	Starting Charge		Maximum Charge	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Vihtavuori N110	Speer	CCI 500	13.5	1557	15.0	1745
Hodgdon H110	Speer	CCI 550	13.9	1459	15.5	1648
Alliant 2400	Speer	CCI 500	13.8	1517	14.8	1626
IMR 4227	Speer	CCI 500	15.0	1377	17.0 C	1583
Winchester 296	Speer	CCI 550	13.2	1317	14.7	1557
Accurate No. 9	Speer	CCI 500	12.3	1330	13.7	1543

170 GRAINS**DIAMETER**

.357"

SECTIONAL DENSITY

0.191

**38 DCSP**

Ballistic Coefficient	0.185
COAL Tested	1.590"
Speer Part No.	4230

Propellant	Case	Primer	Starting Charge		Maximum Charge	
			Weight (grains)	Muzzle Velocity (feet/sec)	Weight (grains)	Muzzle Velocity (feet/sec)
Hodgdon Lil' Gun	Speer	CCI 550	14.8	1635	15.4	1687
Hodgdon H110	Speer	CCI 550	14.4	1541	15.2	1620
Alliant 2400	Speer	CCI 500	13.9	1530	14.5	1613
Vihtavuori N110	Speer	CCI 500	13.2	1480	13.8	1573
IMR 4227	Speer	CCI 500	16.1	1457	16.7	1531
Accurate No. 9	Speer	CCI 550	11.0	1203	11.7	1321

WARNING! Maximum loads should be used with CAUTION • C = Compressed Load