

6.8 SPC REMINGTON

Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1-10"

Components:

Case: Starline

Trim-to Length: 1.676"

Primer: WSR

Remarks:

Patrick Meitin, author "The Predator & Varmint Hunter's Guidebook"

The 6.8mm Remington SPC was devised specifically for military applications while seeking terminal energy delivery surpassing the 5.56mm NATO within M4 service rifles. The cartridge was developed by Remington in collaboration with members of the

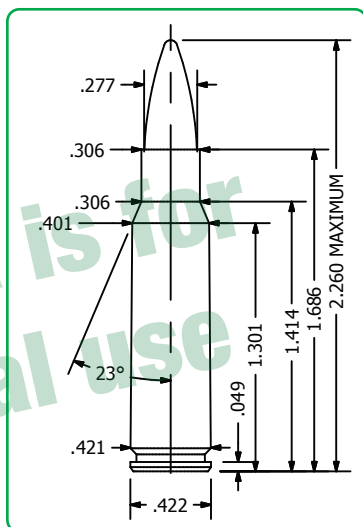
5th Special Forces Group, U.S. Army Special Operations Command in reaction to reports the 5.56mm NATO had proven unreliable at incapacitating enemy combatants in the field from M4 carbine rifles with 16 inch barrels. The goal was also to minimize loss of magazine capacity and incur nominal increases in recoil.

The 6.8mm caliber was chosen to split the difference between 6.5 accuracy and 7mm terminal performance. The original plan included propelling 115 grain bullets at 2,800 fps with 2002 foot pounds of energy; those numbers adjusted to 2,625 fps/1,759 foot pounds before SAAMI approval in 2004. By that time 6.8s were performing in the field against enemy combatants during special operations.


By 2007 U.S. SOCOM and the Marine Corps decided not to field the SPC because its comparatively short bullets lacked long range effectiveness. Nonetheless, the Jordanian Army adopted the 6.8 in 2010, the Saudi Royal Guard ordering 6.8s in LWRC Six8 rifles soon after. You'll encounter 6.8 rifles with rifling twists from 1 in 9.5 to 1 in 12, with 1 in 11 most common.

Cases accepting both large and small rifle primers are encountered; Remington cases holding large rifle, Hornady and SSA cases small rifle, for example. The 6.8 SPC is based on the .30 Remington and produces about 44 percent more energy than the 5.56mm NATO at 100-300 meters. The 6.8 SPC was specifically designed for efficiency in short barrels, so increasing barrel length beyond 16 inches provides only nominal velocity gains.

For civilian use the 6.8 Remington SPC proves quite versatile, launching 90 grain pills to 3,150 fps, pills up to 130 grains to 2,600 fps. It particularly shines in the newfound sport of nighttime hog hunting. Topped with a thermal imaging optic the 6.8 SPC offers ample knock down power for the largest boars while operating in easy handling, light recoiling AR platforms. To 250 yards the 6.8 SPC offers ballistics nearly identical to the 6.5 Grendel, also qualifying it for deer hunting duties.





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		Bullet Caliber Weight Type							C.O.A.L.
		#1800 .277" 90gr. HP							2.260"
Powder	Velocity	2400	2500	2600	2700	2800	2900	3000	
IMR 4227		20.2	21.7	23.0	24.0	24.9			
A 1680				23.1	24.3	25.5	26.7		
CFE BLK				23.7	25.3	26.7	28.0		
RE 7				24.5	25.8	26.9	28.0		
IMR 4198			23.1	24.1	25.1	26.0	26.9		
H4198			23.4	24.6	25.7	26.7	27.5		
H322		25.7	26.5	27.4	28.3	29.4	30.5		
LT 32			25.8	26.8	27.8	29.0	30.1		
RE 10x			25.1	26.1	27.1	28.1	29.0	30.0	
N130			23.9	24.8	25.8	26.9	27.9		
Benchmark		26.8	27.7	28.6	29.6	30.5			
Tactical Rifle				29.6	30.8	32.0	33.2	34.4	
Exterminator				28.6	29.8	31.1	32.4	33.8	
Power Pro Varmint			28.4	29.7	31.0	32.2	33.3	34.4	
Energy Ft. Lbs		1151	1249	1351	1457	1566	1680	1798	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	N130	27.9	2900	1680					
Hunting Load	RE 10x	30.0	3000	1798					

Nighttime hog hunting with thermal imaging optics has become the go to play for controlling invasive wild hogs. The 6.8 Remington SPC, used by Dave Maroon (far right), was more than up for the job, putting this Texas hog down decisively.

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Bullet		Caliber	Weight	Type	C.O.A.L.			
	#1810	.277"	110gr.	SPT	2.260"			
	#1815	.277"	115gr.	HPBT Match	2.260"			
Powder	Velocity	2100	2200	2300	2400	2500	2600	2700
A 1680		19.9	20.8	21.9	23.1			
CFE BLK			20.9	22.6	24.0	25.1		
RE 7			22.0	23.3	24.3	25.2		
IMR 4198			21.4	22.5	23.5	24.5		
H4198			21.1	22.3	23.5	24.5		
H322			23.9	25.1	26.2	27.3	28.4	
LT 32		22.7	23.5	24.5	25.5	26.7	28.0	
RE 10x			22.7	23.9	25.0	26.1	27.0	
N130			21.8	23.0	24.2	25.5		
Benchmark		24.1	25.0	25.9	26.9	27.9	29.0	
IMR 8208 XBR		24.7	25.7	26.7	27.7	28.7	29.7	
Tactical Rifle			25.8	26.7	27.7	28.8	30.0	31.2
H4895			25.6	26.4	27.3	28.4	29.5	30.7
Exterminator		24.2	25.4	26.7	27.8	28.8	29.8	
Power Pro Varmint			26.1	27.1	28.1	29.1	30.2	
Varget			27.0	28.1	29.2	30.3	31.5	
Energy Ft. Lbs		1077	1182	1292	1407	1526	1651	1780
Special Load	Powder	Grains	Velocity	fps	Energy	Ft. lbs		
Accuracy Load	IMR 8208 XBR	29.7	2600		1651			
Hunting Load	Tactical Rifle	31.2	2700		1780			
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								

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	Bullet	Caliber	Weight	Type	C.O.A.L.				
	#1820	.277"	130gr.	SBT	2.260"				
	#1830	.277"	130gr.	SPT	2.260"				
	#1833	.277"	135gr.	HPBT Match	2.260"				
Powder ▾	Velocity >	1900	2000	2100	2200	2300	2400	2500	
RE 7			20.6	21.7	22.8	23.8			
H322			21.8	22.8	24.0	25.1	26.4		
LT 32	21.1		22.0	22.9	23.9	24.9	26.0		
RE 10x			20.9	22.1	23.1	24.1	25.0		
N133			22.3	23.3	24.4	25.4	26.5		
Benchmark			22.9	23.8	24.8	25.8	27.0		
H335			23.5	24.5	25.6	26.8	28.2		
IMR 8208 XBR			23.7	24.6	25.6	26.7	28.0		
Tactical Rifle				24.9	26.0	27.1	28.2	29.4	
TAC				25.2	26.3	27.5	28.7	30.0	
H4895			23.7	24.5	25.4	26.4	27.5		
IMR 4895			23.6	24.7	25.9	27.1			
IMR 4166 End.			22.8	24.2	25.6	26.8			
Exterminator				24.4	25.5	26.8	28.0	29.3	
Power Pro Varmint				25.1	26.2	27.3	28.5	29.8	
Varget			24.9	26.0	27.1	28.3	29.6		
AR Comp				23.9	25.0	26.3	27.6	29.0	
Energy Ft. Lbs			1042	1154	1273	1397	1527	1662	1804
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	IMR 8208 XBR	28.0	2400	1662					
Hunting Load	Tactical Rifle	29.4	2500	1804					
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>									