Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1 - 8"

Components:

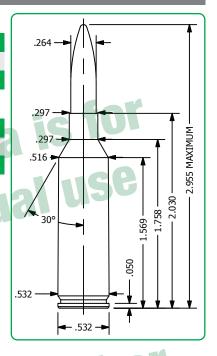
Case: Nosler

Trim-to Length: 2.015"

Primer: WLR

Remarks:

In 2012, gunsmith George Gardner of G.A. Precision decided to design a cartridge specifically for the new Precision Rifles Series, a long range competition taking place over several shoots during the year. Gardner decided high ballistic coefficient 6.5mm bullets were ideal, given the parameters of PRS rules: bullets no more than .30 caliber with a muzzle velocity not exceeding 3200 fps. He did some fooling with QuickLOAD,



and after shooting a couple of the resulting designs, decided on the Ruger Compact Magnum case necked down as the ideal combination of accuracy, recoil and barrel life, since it safely started heavier, high BC bullets at velocities close to, but not over, the 3200 fps maximum.

Gardner also saw the round as a very good hunting cartridge, filling the ballistic gap between the smaller factory 6.5's such as the Creedmoor, .260 Remington and 6.5x55 and the .264 Winchester Magnum, 6.5-300 Weatherby Magnum, and 26 Nosler. It does exactly that, because the powder capacity is similar to the 6.5-06 Ackley Improved wildcat. With the same bullet weights, in the same barrel length, the 6.5 PRC develops just about the same muzzle velocities and recoil as the .270 Winchester, but with higher BC bullets, a very useful slot in big game rounds.

My own 6.5 PRC is a custom hunting rifle, built by Kentucky gunsmith Charlie Sisk on a "short magnum" Remington 700 action, weighing a little over eight pounds with a 24 inch Lilja barrel, Bansner High Tech stock, and Nightforce 3-10x42 SHV scope. Five shot (not 3 shot) groups at 100 yards with just about any good bullet average 1/2 to 3/4 inch, at typical .270 velocities from sporter length barrels.

PRS competitors typically use barrels at least 26 inches long, where muzzle velocities of the 6.5 PRC come within about 100 fps of the .264 Winchester Magnum, with noticeably less recoil. It's a great addition to the growing line up of factory 6.5mm cartridges.



Accuracy Load

	Bullet Cali	ber Weig	ht Type		C	.O.A.L.
	#1715 .26	4" 107g	ır. HPBT Ma	itch	:	2.955"
	#7407 .26	4" 107g	ır. TMK Mat	ch	2	2.955"
Powder ∨ Velo	city > 2900	3000	3100 3150	3200	3250	3300
IMR 4451 End.	_	50.0	52.0 53.0	54.0	55.1	56.1
H4350	46.1	48.0	50.0 51.0	52.1	53.1	
RE 16		48.5	50.7 51.7	52.7	53.6	54.6
RE 17		[[U]	49.7 50.8	51.9	52.8	53.8
Hybrid 100V	_	48.7	50.5 51.4	52.4	53.4	54.4
Energy Ft. Lbs	1998	2138	2283 2357	2432	2509	2587
Special Load	Powder	Grains	. Veloci	ty fps E	nergy Ft	. Ibs

IMR 4451 End. 56.1

Sierra does not recommend MatchKing bullets for hunting applications.





Barsness's hunting rifle was built by Sisk Guns on a Remington 700 action, and weighs a little over eight pounds with scope.

3300

2587

the same weight bullets, in the e length barrels, the 6.5 PRC muzzle velocities very similar to 270 Winchester, but with higher pullets.

	Bullet Cali	ber We	ight Ty	pe			C.O.A.L.
	#1720 .26	4" 120	Ogr. SP	Т			2.925"
	#1725 .26	4" 120	Ogr. HP	BT Mat	ch	-4	2.860"
	#1727 .26	4" 123	3gr. HP	BT Mat	ch		2.955"
Powder ∨ Velocity	> 2650	2750	2850	2950	3000	3050	3100
IMR 4451 End.	43.8	45.6	47.5	49.3	50.2	51.1	
H4350		43.8	45.8	47.9	49.0		
RE 16	TITA	111	46.0	48.2	49.3	50.4	
RE 17		43.5	45.7	47.8	48.8	49.8	50.7
Hybrid 100V		44.9	47.0	49.1	50.1	51.0	
H4831sc			51.0	53.3	54.4	55.5	56.5
IMR 4955 End.	46.8	48.3	50.1	52.1	53.1		
N560	V a		51.7	53.8	54.8	55.8	56.8
RE 23			50.0	52.2	53.2	54.3	55.3
IMR 7828ssc		50.7	52.7	54.6	55.5	56.4	57.3
H1000			54.1	56.1	57.2	58.2	59.3
Energy Ft. Lbs	1871	2015	2164	2318	2398	2478	2560
Special Load	Powder	Grai	ns 🕞	elocity	fps E	nergy F	t. Ibs
Accuracy Load	H4831s	c 56.5		3100	2	2560	
Hunting Load	RE 17	50.7	3	3100	2	2560	
Sierra does not recommend MatchKing bullets for hunting applications.							
Legizm							



	Bullet Cal	iber We	ight Ty	pe		ı	C.O.A.L	
	#1728 .26	64" 130	Ogr. HP	ВТ			2.800"	
#7430 .264" 130gr. TMK Match								
	#4330 .264" 130gr. TGK							
*requires a 1x8" or fas	ster twist		ЧЦ			4		
Powder ∨ Velocit	y > 2650	2750	2850	2950	3000	3050	3100	
IMR 4451 End.	43.7	45.5	47.5	49.4	50.4			
H4350		43.5	45.5	47.4	48.4			
RE 16		44.3	46.4	48.5	49.6	50.7		
RE 17			45.4	47.5	48.6	49.7	50.8	
Hybrid 100V		44.1	46.1	48.1	49.1	50.1		
H4831sc			51.5	53.8	54.9			
IMR 4955 End.		47.2	49.3	51.5	52.6			
RE 22			50.7	52.5	53.4	54.3	55.2	
RE 23			50.1	52.6	53.6	54.6	55.4	
IMR 7828ssc		49.9	52.1	54.1	55.0	55.9		
IMR 7977 End.		54.0	55.8	57.7	58.6	59.5	60.4	
H1000			52.7	55.1	56.2	57.4	58.5	
Retumbo	U		54.5	56.8	58.0	59.3	60.6	
Energy Ft. Lbs	2027	2183	2344	2512	2597	2685	2774	
Special Load	Powder	Grai	ns \	/elocity	fps E	nergy F	t. lbs	
Accuracy Load	RE 17	50.8	3	3100	2	2774		
Hunting Load	Retumb	0 60.6	-	3100	2	2774		
Sierra does not recommend MatchKing bullets for hunting applications.								

Ві	ullet Cali	ber Weight 1	Гуре	C.O.A.L.				
#	1730 .26	4" 140gr. S	SBT	2.880"				
#	1740 .26	4" 140gr. H	HPBT Match	2.910"				
requires a 1x8" or faste	1742 .26	4" 142gr. H	HPBT Match	3.000"				
requires a 1x0 of faste	1 twist	FOT.						
Powder ∨ Velocity >	> 2500	2600 270	0 2750 2800	2850 2900				
IMR 4451 End.	- 1	44.2 46.2	47.4 48.5					
H4350		42.7 44.9	46.1 47.4					
RE 16		42.9 45.6	46.7 47.8					
RE 17		42.3 44.6	45.7 46.8					
H100V		42.5 44.7	46.0 47.3					
H4831sc		47.6						
IMR 4955 End.		46.4 48.6	49.9 51.1					
RE 22	42.6	44.9 47.1	48.2 49.4					
N560	43.8	46.3 48.5						
RE 23		47.7						
IMR 7828ssc		49.9						
RE 25			51.4 52.9					
IMR 7977 End.		53.6						
H1000		50.1						
RE 26		47.7						
Magnum		51.6 54.1						
Retumbo			51.3 52.9					
RE 33		58.1 60.3						
Energy Ft. Lbs	1943	2101 226	6 2351 2437	7 2525 2614				
Special Load	Powder	Grains	Velocity fps	Energy Ft. Ibs				
Accuracy Load	RE 23	50.2	2800	2437				
Hunting Load	RE 25	55.6	2900	2614				
Sierra does not recommend MatchKing bullets for hunting applications.								



Bullet Caliber Weight Type							C.O.A.L.	
#1755 .264" 150gr. HPBT Match 3.080"* *requires a 1x7.5" or faster twist								
Powder ∨ Velocity	> 2400	2500	2600	2650	2700	2750	2800	
H4831sc		43.0	45.8	47.4	49.1			
IMR 4955 End.	42.5	44.8	46.9	48.0	49.0	1		
RE 22		43.9	46.3	47.5	48.6			
N560	1177	44.7	46.8	48.0	49.3	50.6	U	
RE 23		43.9	46.5	47.8	49.1			
IMR 7828ssc		46.3	48.6	49.6	50.7	51.7		
RE 25			49.2	50.4	51.6	52.8	54.1	
IMR 7977 End.	1/	49.9	52.1	53.2	54.2	55.3	56.4	
H1000			49.1	50.3	51.6	52.8		
RE 26			48.0	49.1	50.3	51.5	52.8	
Retumbo			50.1	51.3	52.7	54.1	55.5	
N570				52.1	53.3	54.5	55.8	
RE 33					55.9	57.4	59.0	
Energy Ft. Lbs	1918	2081	2251	2339	2428	2518	2611	
Special Load	Powder	Grai	ins	/elocity	fps I	Energy F	t. lbs	

Special Load Powder Grains Velocity fps Energy Ft. lbs

Accuracy Load RE 33 59.0 2800 2611

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