6mm PPC

Test Specifications:

Firearm Used: Savage Model 11

Barrel Length: 26"

Twist: 1 x 8"

Components:

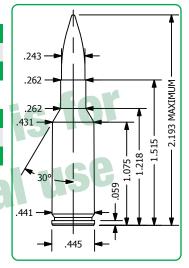
Case: Lapua 220 Russian (reformed)

Trim-to Length: 1.505"

Primer: Remington 7 1/2

Remarks:

The 6mm PPC has almost totally dominated the competitive benchrest scene for many years since the cartridge was introduced in 1974. However, this is hardly the only suitable use for the cartridge. Attributes necessary for a good



match cartridge are the same as those needed for a good varmint cartridge; reasonably high velocity and tack driving accuracy. The PPC has both. It does however, have a few drawbacks. Brass has been difficult to come by in the last few years, and is expensive when it can be found. The cartridge uses an odd sized head, which requires some modification to most existing bolt faces. Few American gun makers have shown any interest in the PPC cartridges, which is undoubtedly a classic case of the "not invented here" syndrome. These inconveniences, however, are of little concern to serious shooters who are interested in the most accurate cartridge ever developed.

As is the case with the 22 PPC, most rifles chambered for the 6mm PPC use a slow, 1x14" twist. This normally limits bullet selection to those of around 75 grains or less. Considering the intended applications of the cartridge, this is not a problem. Varmint hunters will find that the 55 and 70 BlitzKings, plus the 60 and 75 grain hollow points give excellent expansion on game.

Some cautions are in order when loading for the PPC cartridges. PPC cases utilize a smaller than standard .066" versus .081" flash hole which many benchrest shooters feel aids in accuracy. These cases may be damaged if they are deprimed using a standard decapping rod by swaging the flash hole out to the larger diameter. Our test rifle was a standard Kimber 84 production rifle. Many custom built benchrest rifles cannot safely use factory ammunition, due to their tight neck dimensions. If your rifle was custom built, you will need to check the chamber neck diameter against the neck diameter of a loaded cartridge to insure sufficient clearance.



6mm PPC

Βι	ullet Cali	ber Wei	ght Ty	pe			C.O.A.L.
#1	502 .24	3" 55	gr. Bli	itzKing			2.100"
#1	500 .24	3" 60	gr. HF	C			2.090"
Powder 🗸 🛛 Velocity >	> 3200	3250	3300	3350	3400	3450	
Viht N133	26.9	27.5	28.1	28.7	29.3	29.9	
A 2015	27.3	27.8					
H322	27.5	27.9	28.3 29.1	28.7 29.6	29.1		
X Terminator A 2230	28.1 28.5	28.6 28.9	29.1	29.6	30.1	30.5	
748	28.5	30.1	30.5	30.9	31.3	30.5	
A 2460	29.4	29.8	30.2	30.6	31.0	86	
H335	29.4	29.8	30.2	30.6		UÇ	
TAC	29.3	31.3	33.3				
Energy Ft. Ibs	1250	1290	1330	1370	1412	1453	
Special Load	Powd	er Gra	ains	Velocity	fps	Energy I	Ft. Ibs
Accuracy Load	H335	30	.2	3300		1330	
Hunting Load	748	31	.3	3400		1412	
Bu	illet Cali	ber Wei	ght Ty	pe			C.O.A.L.
				-			
	ullet Cali 1507 .24			pe itzKing			C.O.A.L. 2.110"
#1	507 .24 505 .24	3" 70 3" 70	gr. Bli gr. HF	itzKing PBT Mat			2.110" 2.100"
#1	507 .24 505 .24	3" 70	gr. Bli	itzKing PBT Mat			2.110"
#1 Powder ∨ Velocity > Viht N133	507 .24 505 .24 > 2800 24.4	3" 709 3" 709 2900 25.4	gr. Bli gr. HF 3000	itzKing PBT Mat 3050			2.110" 2.100"
#1 Powder Velocity > Viht N133 A 2015	507 .24 505 .24 2800 24.4 25.4	3" 709 3" 709 2900 25.4 26.2	gr. Bli gr. HF 3000 27.0	itzKing PBT Mat 3050 27.4	3100	3150	2.110" 2.100"
#1 Powder Velocity > Viht N133 A 2015 H322	507 .24 505 .24 2800 24.4 25.4 25.0	3" 700 3" 700 2900 25.4 26.2 25.8	gr. Bli gr. HF 3000 27.0 26.6	itzKing PBT Mat 3050 27.4 27.0			2.110" 2.100"
#1 Powder ∨ Velocity > Viht N133 A 2015 H322 X Terminator	507 .24 505 .24 2800 24.4 25.4	3" 709 3" 709 2900 25.4 26.2	gr. Bli gr. HF 3000 27.0 26.6 27.2	itzKing PBT Mat 3050 27.4 27.0 27.7	3100 27.4	3150 27.8	2.110" 2.100" 3200
#1 Powder Velocity > Viht N133 A 2015 H322 X Terminator A 2230	507 .24 505 .24 2800 24.4 25.4 25.0	3" 70, 3" 70, 2900 25.4 26.2 25.8 26.2	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4	itzKing PBT Mat 3050 27.4 27.0	3100	3150	2.110" 2.100"
#1 Powder Velocity > Viht N133 A 2015 H322 X Terminator A 2230 748	507 .24 505 .24 2800 24.4 25.4 25.0	3" 700 3" 700 2900 25.4 26.2 25.8	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9	3100 27.4 28.4	3150 27.8 28.9	2.110" 2.100" 3200
#1 Powder ∨ Velocity > Viht N133 A 2015 H322 X Terminator A 2230 748 A 2460	507 .24 505 .24 2800 24.4 25.4 25.0	3" 70, 3" 70, 2900 25.4 26.2 25.8 26.2	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7 28.1	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9 28.5	3100 27.4 28.4 28.9	3150 27.8 28.9 29.3	2.110" 2.100" 3200
#1 Powder Velocity > Viht N133 A 2015 H322 X Terminator A 2230 748	507 .24 505 .24 2800 24.4 25.4 25.0	3" 70, 3" 70, 2900 25.4 26.2 25.8 26.2	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9	3100 27.4 28.4	3150 27.8 28.9	2.110" 2.100" 3200
#1 Powder ∨ Velocity > Viht N133 A 2015 H322 X Terminator A 2230 748 A 2460 H335 TAC Varget	2507 .24 1505 .24 2800 24.4 25.0 25.2 25.2 25.2	3" 70, 3" 70, 2900 25.4 26.2 25.8 26.2	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7 28.1	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9 28.5 28.8 28.6 29.8	3100 27.4 28.4 28.9 29.1	3150 27.8 28.9 29.3 29.4 29.6	2.110" 2.100" 3200
#1 Powder ∨ Velocity > Viht N133 A 2015 H322 X Terminator A 2230 748 A 2460 H335 TAC	2507 .24 2505 .24 2800 24.4 25.4 25.0 25.2	3" 700 3" 700 2900 25.4 26.2 25.8 26.2 28.9	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7 28.1 28.5	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9 28.5 28.8 28.6 29.8	3100 27.4 28.4 28.9 29.1	3150 27.8 28.9 29.3 29.4	2.110" 2.100" 3200
#1 Powder ∨ Velocity > Viht N133 A 2015 H322 X Terminator A 2230 748 A 2460 H335 TAC Varget	2507 .24 1505 .24 2800 24.4 25.0 25.2 25.2 25.2	3" 700 2900 25.4 26.2 25.8 26.2 28.9 28.6 1307	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7 28.1 28.5 29.4 1399	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9 28.5 28.8 28.6 29.8	3100 27.4 28.4 28.9 29.1 29.1 1493	3150 27.8 28.9 29.3 29.4 29.6	2.110" 2.100" 3200 29.4 1591
#1 Powder ∨ Velocity > Viht N133 A A 2015 H322 X Terminator A A 2230 748 A 2460 H335 TAC Varget Energy Ft. Ibs	27.8 1207 24.4 25.4 25.0 25.2	3" 700 2900 25.4 26.2 25.8 26.2 28.9 28.6 1307	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7 28.1 28.5 29.4 1399 ins	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9 28.5 28.8 28.6 29.8 1446	3100 27.4 28.4 28.9 29.1 29.1 1493 (fps	3150 27.8 28.9 29.3 29.4 29.6 1542	2.110" 2.100" 3200 29.4 1591
#1 Powder ∨ Velocity > Viht N133 A 2015 H322 X Terminator A 2230 748 A 2460 H335 TAC Varget Energy Ft. lbs Special Load	27.8 27.8 27.8 27.8 27.8 27.8 27.8	3" 70 3" 70 2900 25.4 26.2 28.9 28.6 1307 Grat	gr. Bli gr. HF 3000 27.0 26.6 27.2 27.4 29.7 28.1 28.5 29.4 1399 ins	itzKing PBT Mat 3050 27.4 27.0 27.7 27.9 28.5 28.8 28.6 29.8 1446 Velocity	3100 27.4 28.4 28.9 29.1 29.1 1493 / fps	3150 27.8 28.9 29.3 29.4 29.6 1542 Energy I	2.110" 2.100" 3200 29.4 1591



INDICATES MAXIMUM LOAD - USE CAUTION Loads less than minimum charges shown are not recommended.

SIERRA RELOADING MANUAL • SIXTH EDITION

6mm PPC

Bui	et Cali	ber	Weight	Тур	e			C.O.A.L.
#15	10 .24	3"	75gr.	HP				2.090"
Powder \lor Velocity >	2700	280	0 285	0	2900	2950	3000	3050
Viht N133	23.4	24.	4 24.	9	_	-		
A 2015	23.8	24.	8					
H322	23.6	24.	6					
X Terminator		25.	3 25.	8	26.3			
A 2230	24.3	25.	3					
748	26.6	27.	8 28.4	4			5	
A 2460	25.5	26.	5 27.	0	27.5	28.0	28.5	
H335		26.	1 26.	7	27.3	27.9	28.5	29.1
TAC	25.8	26.	6 27.	0	27.4	27.8		
Varget	26.8	27.	8 28.	3	28.8			
Energy Ft. Ibs	1214	130	135	2	1400	1449	1499	1549
Special Load	Powd	er	Grains	V	elocity	/ fps	Energy	Ft. Ibs
Accuracy Load	H322		24.6	28	300		1305	
Hunting Load	H335		28.5	30	000		1499	

Do not edit of redistribute.



6mm PPC

	Bullet Cali	ber Wei	ight Ty	pe		C.O.A.L.	
	#1515 .24	3" 80	gr. SB	BT Blitz		2.110"	
	#7150 .24	3" 80	gr. SP	PT SSP		2.110"	
	#1520 .24	3" 85	gr. SP	т		2.110"	
	#1530 .24 #1535 .24		Ŭ	PBT	IS	2.110" 2.110"	
					2050		
Powder 🗸 🛛 Veloci		2800		3000	3050	50	
H322	25.1	25.9	26.7				
X Terminator	25.3	26.3	27.3				
748	27.5	28.7	29.9				
H335	26.1	27.3	28.5	29.7			
TAC	26.6	27.6	28.6	29.6	30.1		
Varget	27.8	28.7	29.6				
Energy Ft. Ibs	1295	1392	1494	1598	1652		
			_				
Special Load	Powde			Velocity	fps l	Energy Ft. Ibs	
Accuracy Load	748	29.	9	2900	1	494	
Hunting Load	H335	29.	7	3000		1598	
redistribute,							



SIERRA RELOADING MANUAL • SIXTH EDITION

6mm PPC

Bu	llet Calib	er Weight	Туре		(C.O.A.L.
#1	540 .243	" 100gr.	SPT			2.170"
#1	560 .243	" 100gr.	SBT			2.170"
Powder ∨ Velocity >	2400	2500 260	0 2650	2700		
H322	22.3	23.5 24 .	7			
X Terminator	22.9	24.1 25.	3			
748	24.9	26.0 27.	1 27.6	28.2		
H335	24.1	25.4 26.	7 27.3	28.0		
TAC	24.4	25.4 26.	4 26.9	27.4		
Varget	24.4	25.6 26.	8 27.4			
Energy Ft. Ibs	1279	1388 150	1 1559	1618		
Special Load	Powder	Grains	Velocity	fps E	nergy F	t. Ibs
Accuracy Load	748	27.6	2650	1	559	
Hunting Load	H335	28.0	2700	1	618	

Bullet Caliber Weight Type									
#1570 .243" 107gr. HPBT MatchKing 2.300"* *requires a 1x8" or faster twist									
Powder ∨ Velocity >	2100	2200	2300	2400	2500	2600	2700		
H322	19.5	20.6	21.7	22.8	23.9	25.0			
X Terminator	20.1	21.2	22.3	23.4	24.5				
748		22.9	24.0	25.1	26.2	27.3	28.4		
H335		22.1	23.3	24.5	25.7	26.9			
TAC		22.0	23.1	24.2	25.3	26.4			
Varget	22.1	23.1	24.1	25.1	26.1	27.1			
Energy Ft. Ibs	1048	1150	1257	1368	1485	1606	1732		
Special Load	Powde	er Gra	ins	Velocity	y fps	Energy I	Ft. Ibs		
Accuracy Load	Varget	t 26.	1	2500		1485			
Sierra does not recommend MatchKing bullets for hunting applications.									

