

6mm BR Norma

Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1- 8"

Components:

Case: Norma

Trim-to Length: 1.550"

Primer: CCI BR4

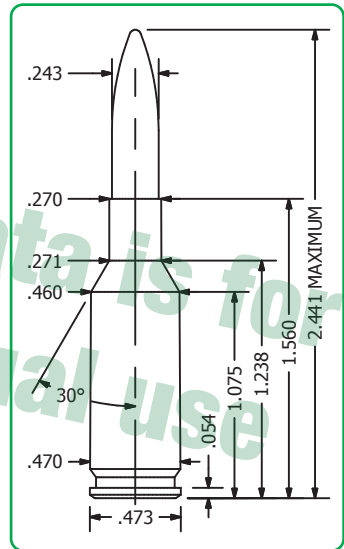
Remarks:

In the late 1970s, Remington marketed a line of cases under a rather unique premise — the brass was not intended to be loaded as it came from the factory. Known as the Remington Bench Rest case, this was a thin-walled 308 Winchester case dimensioned to accept the small rifle primer and specifically annealed for case forming. Behind the scenes, Remington's Mike Walker and Jim Stekl had been working with a series of short, squat little cartridges based on the 308 head size. Based on their results from testing and actual benchrest competition, the BR family (as they came to be called) showed tremendous promise. Since then, both the 22 and 6mm BR chamberings have been offered in Remington's vaunted 40-X target rifles.


Remington finally standardized the 6mm BR in 1989, offering both loaded ammunition and factory-formed brass. It should be noted that the case standardized in 1989 was changed slightly from the original dimensions of the wildcat 6mm BR. The new case has a neck .040" longer than the original, making the maximum case length 1.560". Guns produced prior to January 1989 require the cases to be trimmed by .040" before they can be used. Since many of these guns were produced for benchrest competition, rifles having tight necks may be encountered. A chamber cast, which can be done by any competent gunsmith, is the best way to determine the neck dimensions of your rifle.

Norma introduced the BR as the 6mm BR Norma in 1996. There were some very minor dimensional differences in the case, but they did maintain the same case length. Other changes involved longer throats in the chambering to accommodate the VLD style of bullets being used, and the CIP specifications allowed for higher Chamber pressure maximums of 58,740 PSI versus the lower pressure of 52,000 CUP.

Developing surprisingly high velocities for such a small case, the 6mm BR has outstanding potential as a varmint cartridge. With the heavier bullets, and very precise shot placement, the 6mm BR is a marginally adequate deer cartridge. The BR, with its wildly successful history is still a very relevant.




6mm BR Norma

Bullet		Caliber	Weight	Type	C.O.A.L.				
	#1502	.243"	55gr.	BlitzKing	2.190"				
Powder	Velocity	3100	3200	3300	3400	3500	3600	3700	
LT 32		27.0	27.9	28.8	29.7	30.6	31.6		
Benchmark		28.4	29.4	30.3	31.3	32.3	33.3	34.3	
H335		29.8	30.7	31.6	32.5	33.4	34.3		
IMR 8208 XBR		29.7	30.4	31.2	32.1	33.0	34.1	35.2	
Tactical Rifle			31.3	32.0	32.8	33.8	34.8		
H4895		29.6	30.4	31.3	32.2	33.2			
IMR 4895		30.1	31.1	32.0	33.0	34.0			
IMR 4166 End.		29.3	30.3	31.3	32.4	33.6			
IMR 4064		30.6	31.5	32.4	33.3				
Exterminator		29.0	30.0	30.9	31.9	32.8	33.7	34.6	
Power Pro Varmint					33.6	34.4	35.3	36.2	
Vargot		30.9	31.8	32.9	34.0				
Energy Ft. Lbs		1173	1250	1330	1412	1496	1582	1672	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	Benchmark	34.3	3700	1672					
Hunting Load	Exterminator	34.6	3700	1672					




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6mm BR Norma




		Bullet Caliber Weight Type							C.O.A.L.
		#1500 .243" 60gr. HP							2.140"
Powder	Velocity	2900	3000	3100	3200	3300	3400	3500	
LT 32		24.3	25.4	26.5	27.5	28.5	29.4		
H335				28.7	30.1	31.3	32.4	33.5	
IMR 8208 XBR			27.8	28.9	29.9	30.9	32.0	33.0	
H4895			27.8	28.7	29.7	30.7	31.7	32.7	
IMR 4895		27.6	28.7	29.7	30.7	31.6	32.6		
Varget		28.6	29.5	30.5	31.5	32.6	33.7	34.8	
Energy Ft. Lbs		1120	1199	1280	1364	1451	1540	1632	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	H4895	32.7	3500	1632					
Hunting Load	H335	33.5	3500	1632					

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6mm BR Norma

		Bullet	Caliber	Weight	Type	C.O.A.L.		
	#1505	.243"	70gr.	HPBT Match	2.150"			
	#1507	.243"	70gr.	BlitzKing	2.175"			
	#1510	.243"	75gr.	HP	2.150"			
Powder	Velocity	2600	2700	2800	2900	3000	3100	3200
LT 32			23.4	24.5	25.7	26.9		
RE 10x			23.3	24.4	25.6	26.7	27.9	
N130	21.4	22.4	23.6	24.8				
Benchmark		24.8	25.9	27.0	28.2	29.3		
H335		26.0	27.1	28.3	29.4	30.5		
IMR 8208 XBR					28.9	30.1		
Tactical Rifle		26.2	27.2	28.3	29.4	30.6		
TAC		26.4	27.5	28.6	29.7	30.8		
H4895		25.5	26.5	27.6	28.7	29.8		
IMR 4895	25.5	26.6	27.6	28.7	29.7			
A 2495	25.6	26.7	27.8	28.9	29.9	31.0		
IMR 4166 End.	25.2	26.2	27.3	28.3	29.4			
IMR 4064	25.8	26.8	27.9	28.9	30.0			
A 4064	26.2	27.3	28.4	29.5	30.6	31.7		
Power Pro Varmint			27.2	28.5	29.8	31.0	32.1	
RE 15		27.1	28.2	29.3	30.4	31.4	32.4	
Varget		26.8	28.0	29.1	30.3	31.5		
Energy Ft. Lbs		1051	1133	1218	1307	1399	1493	1591
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
Accuracy Load	RE 10x	27.9	3100	1493				
Hunting Load	Power Pro Varmint	32.1	3200	1591				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								





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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#1515	.243"	80gr.	Blitz SBT	2.170"
	#1520	.243"	85gr.	SPT	2.195"
	#1530	.243"	85gr.	HPBT	2.160"



Powder ▾	Velocity >	2400	2500	2600	2700	2800	2900	3000	
LT 32			22.0	23.2	24.4	25.6			
RE 10x			21.9	23.0	24.2	25.4			
N130	20.0		21.2	22.3	23.5				
Benchmark			23.4	24.5	25.7	26.9	28.1		
H335			24.4	25.4	26.5	27.7	28.8		
IMR 8208 XBR				24.9	26.0	27.2	28.5		
Tactical Rifle			24.3	25.3	26.4	27.5	28.8		
TAC					25.1	28.7			
H4895				24.8	25.9	27.1	28.3		
IMR 4895			24.5	25.7	26.8	28.0	29.2		
A 2495			24.9	25.9	27.1	28.3	29.6		
IMR 4166 End.			24.5	25.6	26.7	27.9	29.0		
IMR 4064			24.9	26.0	27.2	28.4	29.6		
A 4064			25.3	26.5	27.7	28.9	30.1		
Power Pro Varmint				25.6	26.7	27.9	29.2	30.5	
RE 15				26.2	27.4	28.6	29.8	31.0	
Varget				26.0	27.1	28.3	29.6		
Energy Ft. Lbs			1023	1110	1201	1295	1392	1494	1598

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
Accuracy Load	H335	28.8	2900	1494
Hunting Load	Power Pro Varmint	30.5	3000	1598

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Bullet	Caliber	Weight	Type	C.O.A.L.				
	#1535	.243"	90gr. FMJBT	2.200"				
	#4100	.243"	90gr. TKG	2.350"*				
	#1537	.243"	95gr. HPBT Match	2.350"*				
	#7295	.243"	95gr. TMK Match	2.370"*				
*requires a 1x9" or faster twist								
Powder	Velocity	2300	2400	2500	2600	2700	2800	2900
LT 32				23.5	24.8	26.0	27.2	
RE 10x				22.8	23.9	25.1	26.4	
N130		19.9	21.0	22.2	23.5			
Benchmark				24.6	25.9	27.1	28.3	
H335			23.5	24.6	25.8	27.1	28.6	
IMR 8208 XBR				25.2	26.4	27.6	28.7	
Tactical Rifle		24.9	24.3	24.4	24.9	26.0	27.7	
TAC				25.3	26.6	27.9	29.3	
H4895			24.1	25.2	26.4	27.5	28.6	
IMR 4895			24.6	25.8	26.9	28.0	29.1	
A 2495			24.7	25.8	27.0	28.1	29.3	
IMR 4166 End.			24.3	25.4	26.6	27.7	28.7	
IMR 4064			24.8	26.0	27.1	28.2	29.2	
A 4064				26.4	27.7	28.9	30.0	
Power Pro Varmint					26.0	27.5	29.0	30.4
RE 15					26.3	27.5	28.7	29.8
Varget					26.6	27.9	29.0	30.1
Energy Ft. Lbs		1057	1151	1249	1351	1457	1566	1680
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
Accuracy Load	Tactical Rifle	27.7	2800	1566				
Hunting Load	Power Pro Varmint	30.4	2900	1680				
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		Bullet	Caliber	Weight	Type	C.O.A.L.			
		#1540	.243"	100gr.	SPT	2.140"			
		#1560	.243"	100gr.	SBT	2.140"			
Powder ▾	Velocity >	2200	2300	2400	2500	2600	2700	2800	
Benchmark			22.2	23.3	24.6	25.8			
H335		22.5	23.5	24.6	25.7	26.9			
IMR 8208 XBR			22.5	23.8	25.0	26.4			
Tactical Rifle			23.0	24.2	25.4	26.7			
TAC			23.4	24.4	25.6	26.8			
H4895			22.7	23.8	25.0	26.2			
IMR 4895			23.4	24.6	25.7	26.9			
A 2495			23.3	24.4	25.6	26.7			
IMR 4166 End.			23.1	24.3	25.5	26.8			
IMR 4064					25.9	27.2			
A 4064			23.7	24.8	26.0	27.2			
RE 15				24.9	26.1	27.3	28.5		
Varget			23.8	25.0	26.2	27.5			
Power Pro 2000 MR				26.7	28.0	29.2	30.5	31.7	
N540			24.1	25.2	26.3	27.5			
H4350				27.1	28.2	29.5	30.8		
RE 17			26.2	27.3	28.4	29.5	30.7		
Energy Ft. Lbs		1075	1174	1279	1388	1501	1618	1741	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	A 4064	27.2	2600	1501					
Hunting Load	Power Pro 2000 MR	31.7	2800	1741					

6mm BR Norma

Bullet Caliber Weight Type
C.O.A.L.


#1570 .243" 107gr. HPBT Match

2.350"*


*requires a 1x8" or faster twist

Powder ∨	Velocity >	2150	2250	2350	2450	2550	2650	2700
Benchmark		21.8	23.0	24.2	25.6			
IMR 8208 XBR		22.3	23.6	24.8	26.1			
H4895		22.3	23.5	24.7	26.0			
IMR 4895		22.6	23.8	25.1	26.5			
A 2495		23.0	24.1	25.3	26.6			
IMR 4166 End.		22.7	23.8	25.0	26.2			
IMR 4064		23.2	24.4	25.6	26.8			
A 4064		23.3	24.6	25.8	27.1			
RE 15			24.5	25.7	27.0	28.3	29.0	
Varget		23.5	24.7	25.9	27.1			
Power Pro 2000 MR				27.4	28.8	30.2	30.8	
N540		23.6	24.7	25.8	27.0	28.3		
IMR 4451 End.	25.8	27.1	28.3	29.5	30.7	31.9		
A 4350			27.2	28.7	30.2	31.5	32.2	
H4350			26.5	27.7	29.0	30.4	31.2	
RE 16			26.5	27.9	29.2	30.5	31.1	
RE 17		26.2	27.1	28.0	29.1	30.2	30.8	
Energy Ft. Lbs		1098	1203	1312	1426	1545	1668	1732

Special Load Powder Grains Velocity fps Energy Ft. lbs
Accuracy Load IMR 8208 XBR 26.1 2550 1545

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Bullet		Caliber	Weight	Type	C.O.A.L.					
		#1575	.243"	110gr.	HPBT Match	2.450"*				
*requires a 1x7" or faster twist										
Powder	Velocity	2150	2250	2350	2450	2550	2650	2700		
IMR 8208 XBR			22.4	23.6	24.9	26.3				
H4895			22.0	23.4	24.8	26.1				
IMR 4064	22.1	23.3	24.5	25.7						
A 4064		23.3	24.5	25.8	27.1					
RE 15		23.3	24.5	25.7	27.0	28.3				
Varget		22.8	24.3	25.8	27.3					
Power Pro 2000 MR				26.1	27.6	29.0	30.3	30.9		
N540		23.3	24.6	25.9	27.1					
IMR 4350		26.5	27.8	29.1	30.4					
IMR 4451 End.	25.9	27.2	28.5	29.7	30.9					
A 4350			26.5	27.9	29.5	31.1				
H4350		25.2	26.4	27.8	29.1	30.5				
RE 16			26.2	27.7	29.2	30.6	31.3			
RE 17		25.6	26.8	28.0	29.1	30.3	30.8			
Energy Ft. Lbs		1129	1236	1349	1466	1588	1715	1780		
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs						
Accuracy Load	IMR 4064	25.7	2450	1466						
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