

308 WINCHESTER

Test Specifications:

Firearm Used: Universal

Barrel Length: 24"

Twist: 1 x 10"

Components:

Case: Winchester

Trim-to Length: 2.005"

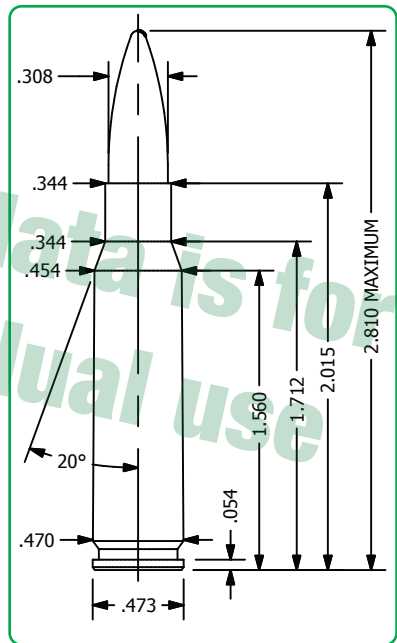
Primer: WLR

Remarks:




Shortly after the end of World War I, the U.S. Ordnance Corps began looking for a smaller cartridge to replace the 30-06 Springfield. With typical government efficiency, the quest was still being pursued toward the end of the Second World War. By 1944, engineers at Frankford Arsenal had begun to experiment with the 300 Savage case. Designated as the Cartridge, Ball, Cal. 30 T65, the experimental round gave performance roughly equal to the larger 30-06. After a long series of modifications, a revised cartridge case designated as the T65E3 was adopted as the NATO standard on December 15, 1953. The U.S. finally embraced the 7.62mm NATO cartridge in two new weapons adopted in 1957 — the M14 rifle and the M60 machinegun.

While the military trials were still in progress, Winchester introduced the cartridge to the sporting public as the 308 Winchester. Initially, the 308 was chambered in the bolt action Model 70 rifle. Since then, the cartridge has been chambered by virtually every major arms maker in almost every conceivable action type. Public acceptance was slow, due largely to unflattering comparisons to the 30-06. Despite the initial lukewarm enthusiasm, the 308 has become one of the most useful sporting cartridges.




The 308 is an extremely easy cartridge to reload. Like the 222 Remington and 6mm PPC, the 308 is an extremely accurate cartridge. It probably is the most inherently accurate 30 caliber commercial cartridge ever produced. As a competitive cartridge, the 308 has been used in benchrest, highpower, longrange, silhouette, and 300-meter international matches. Few, if any, other cartridges have been so successful in such a wide range of shooting disciplines. It has also become quite popular as a hunting cartridge and is adequate for most North American big game species, particularly deer-sized game. Though frequently compared to it, the 308 cannot match the performance of the 30-06. The difference between the two, however, is insignificant unless bullets of 180 grains or heavier are discussed. The 30-06's greater capacity and ability to use slower powders give it an undeniable edge. If military brass is used for reloading, the charges shown should be reduced by one to two grains. The thicker construction of these cases decreases capacity, making a reduction in charge weight a necessity.





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Bullet	Caliber	Weight	Type	C.O.A.L.					
	#2100	.308"	110gr.	RN	2.500"				
	#2105	.308"	110gr.	FMJ	2.500"				
	#2110	.308"	110gr.	HP	2.600"				
Powder	Velocity	2700	2800	2900	3000	3100	3200	3300	
RE 7			37.1	38.1	39.6				
IMR 4198						39.1	41.0	42.7	
H322			39.3	40.3	41.6	43.0	44.8	46.7	
A 2015			40.4	42.0	43.5	44.9			
RE 10x			39.0	40.2	41.5	42.9	44.5		
IMR 3031	40.3	41.7	43.1	44.4	45.6				
Benchmark					44.5	45.8	47.4	49.1	
IMR 4895			43.5	44.8	46.5	48.4			
Energy Ft. Lbs	1780	1915	2054	2198	2347	2501	2659		
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	RE 7	39.6	3000	2198					
Hunting Load	IMR 4198	42.7	3300	2659					








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	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#2120	.308"	125gr.	SPT	2.700"			
	#2121	.308"	125gr.	HP Match	2.800"			
	#7725	.308"	125gr.	TMK Match	2.800"			
Powder	Velocity	2600	2700	2800	2900	3000	3100	3200
RE 10x				38.6	40.0	41.9		
IMR 3031		41.4	42.8	44.0				
Benchmark				43.1	44.8	46.6		
H335				45.2	46.7	48.1		
TAC				44.4	46.2	48.0	49.7	
H4895					46.0	47.9		
IMR 4895	41.2	42.6	44.1	45.6				
A 2495	41.1	42.3	43.6	44.9				
IMR 4064	41.5	43.4	45.1	46.6				
RE 15	42.6	43.9	45.2	46.7				
N140	43.2	44.3	45.8	47.9				
Varget				46.2	47.9			
Win 748	43.4	44.7	46.1	47.4	48.8	50.2		
AR Comp	40.1	41.1	42.4	44.1	46.0			
Energy Ft. Lbs	1876	2023	2176	2334	2498	2667	2842	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	H4895	47.9	3100	2667				
Hunting Load	TAC	49.7	3200	2842				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								

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	Bullet	Caliber	Weight	Type	C.O.A.L.				
	#2123	.308"	135gr.	HPBT Match	2.775"				
	#2124	.308"	135gr.	HP	2.650"				
Powder	Velocity	2500	2600	2700	2800	2900	3000	3100	
RE 10x				38.5	39.7	41.2	42.8		
IMR 3031		38.5	40.1	41.7	43.1	44.4			
Benchmark						44.2	45.8	47.2	
H335			41.5	43.1	44.6	46.0	47.3	48.5	
TAC						45.4	47.3	49.2	
H4895			40.5	41.5	42.7	44.3	46.0	48.1	
IMR 4895		40.2	41.9	43.5	45.1	46.7	48.1		
IMR 4064		40.4	42.7	44.9	47.1				
RE 15		41.1	42.4	44.0	45.8	47.9			
N140		41.8	43.2	44.8	46.4	48.0			
Varget				44.0	45.8	47.5	49.0		
Win 748				44.7	46.2	47.8	49.3		
AR Comp		40.2	41.3	42.6	43.9	45.4			
Energy Ft. Lbs		1873	2026	2185	2350	2521	2697	2880	
Special Load	Powder	Grains	Velocity	fps	Energy	Ft. lb			
Accuracy Load	H4895	48.1	3100		2880				
Hunting Load	H335	48.5	3100		2880				
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Bullet	Caliber	Weight	Type	C.O.A.L.
	#2130	.308"	150gr. SPT	2.750"
	#2125	.308"	150gr. SBT	2.750"
	#2190	.308"	150gr. HPBT Match	2.775"
	#2135	.308"	150gr. RN	2.500"
	#2155	.308"	155gr. HPBT Match	2.775"
	#2156	.308"	155gr. HPBT Match Palma	2.775"
	#7755	.308"	155gr. TMK Match	2.800"

Powder	Velocity	2350	2450	2550	2650	2750	2850	2900
RE 10x				36.7	38.2	39.7	41.2	
IMR 3031				39.3	40.8	42.4		
Benchmark					40.3	42.0	43.8	44.8
H335				40.8	42.4	43.8	45.1	45.7
IMR 8208 XBR				40.2	41.5	42.9	44.4	
TAC							45.8	46.9
H4895					41.6	43.3	44.8	45.5
IMR 4895			40.1	41.7	43.2	44.6	46.0	
A 2495	38.3	39.5	40.8	42.3	43.8			
IMR 4166 End.			40.2	41.5	43.0			
IMR 4064			41.2	42.8	44.7	46.8		
RE 15		40.2	41.4	42.8	44.3	46.0		
N140		41.1	42.5	44.0	45.5			
Varget		40.5	41.8	43.3	44.9	46.5	47.4	
CFE 223		43.3	44.5	45.7	47.0	48.2	48.9	
AR Comp			39.8	41.2	42.7	44.4	45.3	
Energy Ft. Lbs		1839	1999	2165	2339	2518	2705	2801

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	N140	45.5	2750	2518
Hunting Load	Benchmark	44.8	2900	2801

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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2145	.308"	165gr.	SBT	2.750"
	#2140	.308"	165gr.	HPBT	2.750"
	#4665	.308"	165gr.	TGK	2.800"
	#2200	.308"	168gr.	HPBT Match	2.800"
	#7768	.308"	168gr.	TMK Match	2.800"

Powder	Velocity	2300	2400	2500	2600	2700	2750	2800
IMR 3031			37.7	39.1	40.6			
Benchmark				38.5	40.2	42.0		
H335				40.2	41.7	43.3	44.1	
IMR 8208 XBR				39.4	41.2	43.0	43.9	
TAC				40.7	42.3	43.9	44.7	45.5
H4895				39.0	40.7	42.5	43.4	
IMR 4895			38.7	40.4	42.1	43.9		
A 2495			38.3	39.3	40.9	43.2		
IMR 4166 End.			38.1	38.8	40.2	42.4		
IMR 4064			39.3	40.9	42.5	44.3		
RE 15			40.5	42.0	43.4	44.5	45.0	
N140	39.4	40.8	42.2	43.6	44.9			
Varget			40.9	42.5	44.1	45.0		
Win 748		40.8	42.2	43.5	44.8	45.5		
CFE 223		40.8	42.1	43.5	45.2	46.1	47.0	
AR Comp			39.8	41.4	42.9	43.6		
Energy Ft. Lbs		1938	2110	2289	2476	2670	2770	2872



Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	IMR 8208 XBR	43.9	2750	2770
Hunting Load	TAC	45.5	2800	2872

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	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#2275	.308"	175gr.	HPBT Match	2.800"			
	#7775	.308"	175gr.	TMK Match	2.800"			
	#2150	.308"	180gr.	SPT	2.800"			
	#2160	.308"	180gr.	SBT	2.800"			
	#2220	.308"	180gr.	HPBT Match	2.800"			
	#2170	.308"	180gr.	RN	2.710"			
Powder	Velocity	2400	2450	2500	2550	2600	2650	2700
IMR 3031		38.5	39.3	40.0	40.7			
Benchmark		37.0	37.8	38.8	39.9			
H335		39.4	40.0	40.8	41.6	42.5	43.5	
IMR 8208 XBR			38.7	39.8	40.8	41.9	42.9	
TAC			39.0	40.1	41.2	42.3	43.4	
H4895	38.0		38.9	39.8	40.8	41.8		
IMR 4895			39.6	40.5	41.7	43.2		
A 2495	39.2		39.9	40.6	41.5	42.4		
IMR 4166 End.			38.6	39.4	40.2	41.0		
IMR 4064			39.5	40.2	41.2	42.3		
RE 15	41.0		42.0	42.7	43.3	43.7	44.0	
N140	41.1		41.8	42.5	43.2	43.8		
Varget	39.4		40.2	41.2	42.3	43.6		
Win 748	41.9		42.4	43.0	43.6	44.1	44.7	
CFE 223	40.4		41.6	42.7	43.8	44.8	45.8	46.8
AR Comp	38.4		39.1	39.9	40.8	41.8		
Energy Ft. Lbs		2238	2332	2428	2526	2626	2728	2832
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	TAC	43.4	2650	2728				
Hunting Load	CFE 223	46.8	2700	2832				
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Bullet	Caliber	Weight	Type	C.O.A.L.				
	#2210	.308"	190gr. HPBT Match	2.800"				
	#7795	.308"	195gr. TMK	2.800"*				
*requires 1 x 10" twist or faster twist								
Powder	Velocity	2300	2350	2400	2450	2500	2550	2600
IMR 3031		36.8	37.6	38.5	39.4	40.3		
TAC			38.6	39.3	40.2	41.1	42.2	
H4895		37.7	38.5	39.3	40.0	40.8	41.5	
IMR 4895		38.3	39.3	40.2	41.0	41.7		
IMR 4166 End.		37.3	38.0	38.7	39.3			
IMR 4064		38.1	38.7	39.5	40.5			
RE 15		38.7	39.5	40.3	41.1	42.0	43.0	
N140		39.6	40.4	41.2	42.1	42.9		
Varget		38.1	39.2	40.2	41.2	42.2		
Win 748				41.2	42.0	42.8	43.7	44.5
CFE 223		41.2	41.8	42.5	43.2	43.9	44.7	45.4
Win 760		43.1	43.9	44.7	45.7	46.8	47.9	
AR Comp				38.0	39.3	40.6		
Energy Ft. Lbs		2231	2329	2430	2532	2636	2743	2851
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	IMR 3031	40.3	2500	2636				
Hunting Load	Win 748	44.5	2600	2851				
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	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#2165	.308"	200gr.	SBT	2.800"			
	#2230	.308"	200gr.	HPBT Match	2.800"			
	#2231	.308"	200gr.	HPBT match	3.150"*			
*requires 1 x 9" twist or faster twist								
Powder	Velocity	2200	2250	2300	2350	2400	2450	2500
IMR 3031			36.5	37.4	38.2	39.1		
TAC				38.2	39.2	40.2	41.2	42.1
H4895			36.6	37.4	38.4	39.3	40.3	
IMR 4895					38.9	40.2	41.4	
IMR 4166 End.				37.6	38.3	39.0		
IMR 4064				38.6	39.3	40.2		
RE 15			38.3	39.1	39.9	40.8	41.6	42.5
N140				39.7	40.7	41.7	42.6	
Varget			37.6	38.5	39.4	40.4	41.4	42.3
CFE 223							43.4	44.0
N540			38.8	39.6	40.5	41.3	42.1	42.9
Win 760	42.1	42.9	43.8	44.7	45.6	46.5	47.4	
IMR 4350	42.4	43.5	44.5	45.6	46.6	47.6		
IMR 4451 End.	42.5	43.6	44.7					
H4350					43.5	44.5	45.6	46.8
RE 16					43.1	44.2	45.4	46.5
AR Comp				37.4	38.3	39.2	40.2	
Energy Ft. Lbs		2149	2248	2349	2452	2558	2665	2775
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	H4350	46.8	2500	2775				
Hunting Load	TAC	42.1	2500	2775				
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Bullet		Caliber	Weight	Type	C.O.A.L.				
	#9240	.308"	210gr.	HPBT	2.800"*				
*requires 1 x 10" twist or faster twist									
Powder	Velocity	2200	2250	2300	2350	2400	2450	2500	
TAC					39.6	40.5			
H4895		36.0	36.8	37.7	38.7	39.8			
RE 15				39.6	40.7	41.8	42.6		
N140		38.8	39.8	40.7	41.5	42.3			
Varget			38.4	39.4	40.5	41.5			
CFE 223		39.8	40.4	41.1	41.8	42.5	43.3	44.1	
Win 760		42.6	43.6	44.6	45.5	46.4			
AR Comp			37.1	38.0	39.0				
Energy Ft. Lbs		2256	2360	2466	2575	2685	2798	2914	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb					
Accuracy Load	AR Comp	39.0	2350	2575					

Do not edit or
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		Bullet Caliber Weight Type								C.O.A.L.
		#2240 .308" 220gr. HPBT								2.800"*
*requires 1 x 10" twist or faster twist										
Powder	Velocity	2100	2150	2200	2250	2300	2350	2400		
H4895		33.9	34.7	35.6	36.7	37.9				
RE 15					39.0	39.7	40.5	41.5		
N140			37.8	38.8	39.8	40.8				
Varget						39.4	40.8			
CFE 223		38.1	39.0	39.8	40.6	41.4	42.2	42.9		
Win 760			41.7	42.6	43.5	44.6	45.8	47.0		
AR Comp				36.6	38.1	39.1				
Hybrid 100V		39.1	40.1	41.1	42.1	43.1	44.1			
Energy Ft. Lbs		2154	2258	2364	2473	2584	2697	2813		
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb						
Accuracy Load	RE 15	41.5	2400	2813						

		Bullet Caliber Weight Type								C.O.A.L.
		#2251 .308" 230gr. HPBT								3.200"
*requires 1 x 8" twist or faster twist										
Powder	Velocity	2050	2100	2150	2200	2250	2275	2300		
RE 15				37.3	38.3	39.4	39.9	40.3		
N140		36.0	37.3	38.5	39.5	40.3	40.7			
Varget		35.2	36.0	36.9	37.9	38.9	39.5			
N540		36.1	37.2	38.3	39.2	40.2	40.6	41.0		
IMR 4350			40.5	41.4	42.4	43.4	44.0	44.6		
IMR 4451 End.				40.9	41.9	43.0	43.6	44.2		
A 4350			41.0	42.2	43.3	44.3	44.8			
H4350					41.0	42.2	42.8	43.4		
RE 16			39.4	40.4	41.4	42.4	42.9	43.4		
Hybrid 100V			39.2	40.1	41.0	41.9	42.4	42.9		
Energy Ft. Lbs		2146	2252	2360	2471	2585	2643	2701		
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb						
Accuracy Load	Varget	39.5	2275	2643						