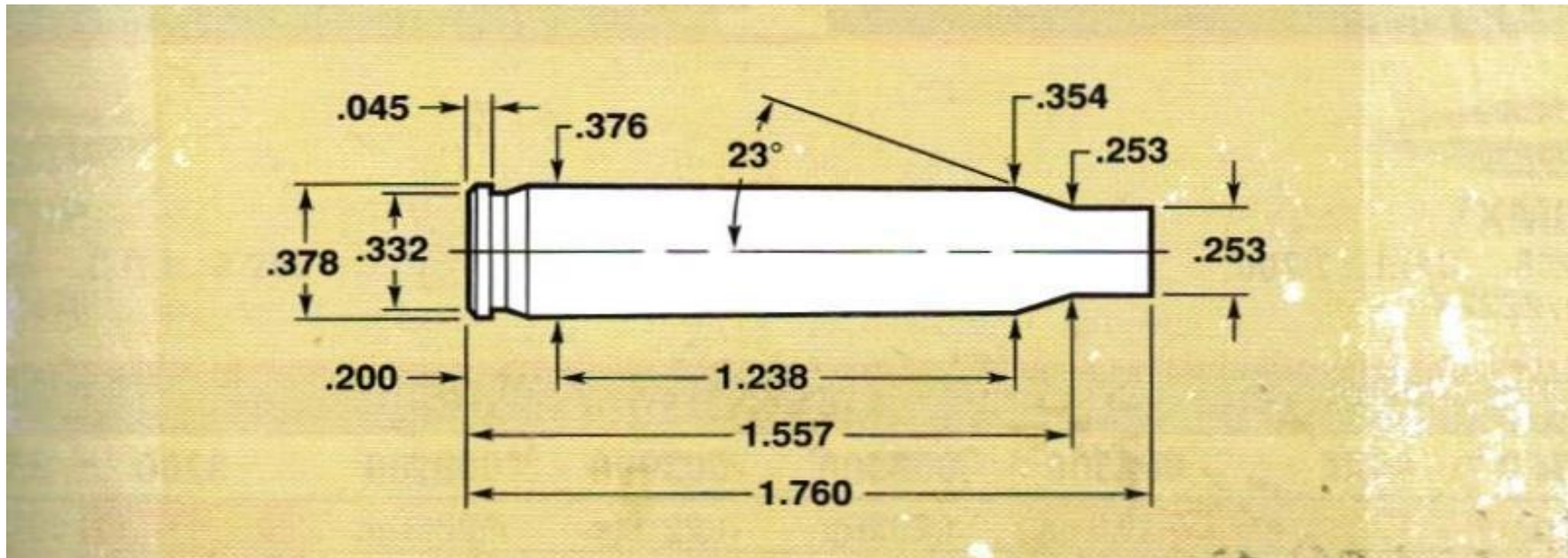


## .223 Remington (5.56X45mm)

<b>Test Components:</b> Cases: Remington Trim-to Length: 1.750" Primers: Rem 7 1/2 Primer Size: Small Rifle	<b>Test Specifications:</b> (Velocity & Pressure) Firearm Used: Colt AR-15 Barrel Length: 24" & 20" * 1:7 Twist: 1:12   Groove Dia.: .224"
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**KEY: + indicates grains compressed | \* indicates 20" Barrel**

Jacketed Bullets Used		Cast Bullets Used   *gas check bullets
Barnes Varmint Grenade #22436 36 GR Hornady V-Max, #22241 ,40 GR Sierra SPT #1310 45 GR Sierra Blitz #1340 50 GR Sierra HPBT #1410 52 GR	Sierra SPT #1360 55 GR Hornady V-Max #22281 60 GR Sierra SMP #1370 63 GR Sierra HPBT #1380 69 GR Hornady A-Max #22792 75 GR	Sierra HPBT #9377 77 GR Sierra HPBT #9390 80 GR (sized to .224" dia.) *#225646, 55 GR *#225415, 55 GR



<b>36 gr. Barnes Varmint Grenade 2.240" OAL</b>					BC: .149	SD: .102
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4198	20.7	3214	39,100	23.0	3589	51,000
RX7	20.7	3253	39,300	23.0	3541	47,800
AA-2015	23.8	3102	39,100	26.5+	3547	51,700
IMR-3031	23.4	3060	37,300	26.0+	3455	47,300
Benchmark	24.9	3392	42,500	27.7+	3736	51,300
H322	24.7	3306	40,500	27.5+	3691	51,000
AA-2230	24.7	3231	39,200	27.5	3639	50,800
H335	24.3	3067	38,300	27.0	3466	50,300
X-Terminator	24.9	3228	42,400	27.7	3566	51,400
IMR-4895	25.2	2999	36,800	28.0+	3369	46,600
BL-C(2)	27.1	3316	40,400	30.2+	3723	50,600
Varget	25.2	2965	23,100	28.0+	3324	40,400

<b>40 gr. Jacketed V-Max 2.215" OAL</b>					BC: .200	SD: .114
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4198	20.6	3170	34,300	22.9	3545	46,900
AA-2015	24.4	3253	32,300	27.0	3760	49,700
RX7	21.6	3163	32,300	24.0	3583	47,400
IMR-3031	23.4	2957	31,600	26.0+	3395	44,500
Benchmark	25.2	3276	38,800	28.0+	3627	50,400
H322	24.3	3095	32,000	27.0+	3619	49,000
AA-2230	24.3	3156	36,800	27.0	3649	50,200
IMR-4895	25.0	3001	34,500	27.8+	3444	47,700
H335	25.5	3135	33,200	28.3	3640	50,000
BL-C (2)	27.3	3207	37,800	30.3	3685	50,400
Varget	25.6	3042	31,000	28.0+	3383	38,900

<b>45 gr. Jacketed SPT 2.240" OAL</b>					BC: .210	SD: .128
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4198	20.6	3171	36,600	22.9	3542	51,800
AA-2015	23.8	3083	35,100	25.5	3558	50,900
RX7	21.7	3114	35,000	24.2	3537	51,700
IMR-3031	22.9	2798	31,200	25.5+	3346	46,700
X-Terminator	23.8	2876	41,900	26.5	3137	50,700
Benchmark	24.7	3173	40,200	27.5	3480	48,700
H322	24.4	3274	40,300	27.2+	3571	50,900
AA-2230	24.3	3166	36,600	27.6	3659	51,700
IMR-4895	25.2	3009	32,600	28.1+	3420	47,700
TAC	25.5	3091	35,100	28.5	3544	50,400
H335	26.1	3200	37,300	29.4	3678	51,700
BL-C (2)	26.0	3218	37,800	29.0	3641	51,300
748	27.0	3211	36,300	30.0	3592	47,600
Va rget	25.2	3023	28,600	28.0+	3369	40,700

<b>50 gr. Jacketed Blitz 2.235" OAL</b>					BC: .222	SD: .142
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4198	20.0	2739		22.0	3115	
AA-2015	23.2	3069	32,200	25.0	3480	49,200
RX7	21.7	3009	34,200	24.1	3330	47,600
IMR-3031	22.0	2688		25.5+	3257	
X-Terminator	23.5	3001	38,100	26.3	3338	51,200
Benchmark	23.8	3043	36,400	26.5	3332	48,400
AA2230	23.8	3080	36,800	26.0	3453	50,300
IMR-4895	23.0	2570		26.5+	3115	
H335	24.8	3025	34,300	27.7	3459	51,600
BL-C (2)	24.0	2666		27.5	3076	
AA2460	23.9	2964	38,800	26.6	3303	49,900
748	26.1	2977	33,300	29.0	3401	46,500

<b>50 gr. Jacketed Blitz 2.235" OAL CONT.</b>				BC: .222	SD: .142	
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4064	23.0	2538		26.0+	2967	
Varget	25.4	3010	32,800	28.2+	3376	45,400
IMR-4320	24.0	2638		27.5	3134	

<b>52 gr. Jacketed HPBT 2.250" OAL</b>				BC: .225	SD: .148	
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4198	19.0	2666		21.6	3039	
AA-2015	22.8	2965	32,300	25.3	3396	48,600
IMR-3031	22.0	2645		25.0+	3125	
Benchmark	23.1	2932	37,100	25+	3251	49,400
AA2230	22.9	2868	34,300	25.5	3299	48,800
IMR-4895	23.0	2538		26.5+	3086	
H335	24.5	2950	34,200	27.2	3361	51,500
BL-C (2)	24.0	2564		27.0	2915	
M2460	23.9	2907	39,500	26.5	3228	50,200
748	25.2	2974	36,300	28.0	3318	49,200
IMR-4064	23.0	2512		26.0+	2941	
Varget	25.6	3019	35,500	28.0+	3377	48,700
IMR-4320	24.0	2659		27.5+	3125	

<b>55 gr. #225464 (#2 Alloy) 2.260" OAL</b>				BC: .155	SD: .157	
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
Unique	6.2	1753	26,700	9.0	2209	41,400
SR-7625	6.7	1763	26,800	9.5	2205	43,900
AA9	7.8	1749	17,500	11.0	2198	28,900
2400	8.0	1753	18,000	11.5	2206	27,100
SR-4759	8.5	1751	17,500	11.5	2206	27,300
AA-5 744	10.3	1757	17,000	14.0	2186	27,000
IMR-4227	10.0	1766	17,000	13.0	2180	26,200
AA-1680	10.9	1756	16,000	14.3	2181	23,500

<b>55 gr. #225464 (#2 Alloy) 2.260" OAL CONT.</b>					BC: .155	SD: .157
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
1MR-4198	10.7	1756	17,000	14.5	2223	25,200
RX7	11.5	1758	17,000	15.6	2226	25,300

<b>55 gr. #225415 (#2 Alloy) 2.060" OAL</b>					BC: .116	SD: .157
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
Red Dot	5.6	1795	23,400	9.0	2280	40,700
700X	5.6	1790	23,400	7.7	2080	39,400
Green Dot	6.2	1855	23,400	9.2	2270	39,000
PB	6.3	1775	24,000	8.7	2120	39,400
Unique	6.8	1900	20,400	9.5	2300	35,000
SR-7625	6.6	1820	24,000	8.8	2120	39,900
SR-4759	9.3	1762	18,000	11.3	2195	24,200
AA-5744	11.0	1765	18,000	14.5	2234	26,600
IMR-4227	11.0	1762	18,000	14.0	2193	23,200

<b>55 gr. Jacketed SPT 2.260" OAL</b>					BC: .237	SD: .157
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4198	19.0	2645		21.7	3067	
AA-2015	22.5	2970	33,800	25.0	3353	50,800
IMR-3031	21.0	2506		24.5+	3076	
Benchmark	22.7	2793	33,100	25.3	3137	
AA2230	22.5	2891	37,000	25.0	3272	
X-Terminator	23.3	2905	35,900	26.0	3261	
IMR-4895	23.0	2564		26.0+	3030	
H335	24.3	3142	35,200	27.0	3270	49,100
BL-C (2)	23.0	2525		26.5	2949	
AA2460	23.7	2853	36,700	26.3	3182	49,900
748	25.0	2849	33,500	27.8	3228	49,600
IMR-4064	23.0	2531		26.0+	2949	

<b>55 gr. Jacketed SPT 2.260" OAL CONT.</b>				BC: .237	SD: .157	
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
Varget	25.0	2977	34,700	27.8+	3346	51,400
IMR-4320	24.0	2672		27.5+	3144	

<b>60 gr. Jacketed V-Max 2.260" OAL</b>				BC: .265	SD: .171	
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	22.0	2882	35,500	24.5	3217	52,000
IMR-3031	21.4	2648	35,000	23.8	3047	48,300
Benchmark	22.0	2678	34,900	24.5	3018	48,200
AA2230	22.0	2749	37,300	24.5	3134	51,800
IMR-4895	22.9	2900	37,300	25.5	3023	49,500
H335	23.2	2728	34,700	25.8	3121	51,200
BL-C (2)	23.4	2673	33,200	26.0	3035	47,800
M-2460	22.5	2678	38700	25.0	2997	50,600
748	23.4	2608	32,200	26.0	3030	49,400
1MR-4064	23.8	2725	35,500	26.0+	3074	49,900
Varget	24.4	2854	36,300	27.2+	3170	49,300
IMR-4320	23.3	2663	36,300	25.9	2995	49,900
RX15	23.8	2783	36,800	26.5+	3098	47,300

<b>63 gr. Jacketed SMP 2.260" OAL</b>				BC: .231	SD: .179	
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
IMR-4198	18.0	2487		20.0	2544	
AA-2015	22.0	2773	35,100	24.5	3088	50,500
IMR-3031	20.0	2403		22.5	2777	
Benchmark	21.8	2648	34,400	24.3	2943	46,400
X-Terminator	22.2	2742	34,400	24.8	3049	50,500
AA2230	23.5	2926	37,300	26.1	3250	50,400
IMR-4895	22.0	2444		25.0	2865	
H335	23.7	2800	32,900	26.4	3139	48,700
BL-C (2)	23.0	2544		26.0	2840	

<b>63 gr. Jacketed SMP 2.260" OAL CONT.</b>					BC: .231	SD: .179
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA2460	23.4	2739	34,700	26.0	3103	50,400
748	24.7	2768	32,600	27.5	3142	49,300
IMR-4064	22.0	2409		25.0+	2808	
Varget	25.0	2891	36,000	27.0	3231	49,700
IMR-4320	22.0	2421		25.5	2881	
RX15	24.7	2892	36,500	27.5	3210	51,200

<b>69 gr. Jacketed HPBT 2.260" OAL</b>					BC: .301	SD: .196
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	21.6	2677	36,600	24.0	2958	49,000
M2230	22.5	2717	34,200	25.0	3063	48,400
IMR-4895	22.5	2614	38,400	25.0	2896	50,800
H335	22.9	2593	32,700	25.5	2994	51,400
8L-C (2)	23.4	2525	32,100	26.5	3018	50,700
AA-2460	22.5	2613	36,400	25.0	2928	49,300
748	23.6	2584	34,500	26.3	2994	51,100
IMR-4064	22.9	2603	37,100	25.5	2930	48,800
Varget	23.4	2654	33,700	26.0+	2922	40,500
IMR-4320	23.9	2682	37,200	26.5+	2946	47,100
N140	23.4	2650	34,300	26.0+	2926	45,800
RX15	23.9	2721	36,700	26.5+	2975	45,000

<b>*69 gr. Jacketed HPBT 2.260" OAL (20" BBL 1:7)</b>					BC: .301	SD: .196
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	21.6	2596		24.0	2936	
AA-2230	22.5	2629		25.0	2979	
IMR-4895	22.5	2475		25.0	2786	
H335	22.9	2498		25.5	2839	
BL-C (2)	23.4	2442		26.5	2861	
AA-2460	22.5	2511		25.0	2883	

<b>*69 gr. Jacketed HPBT 2.260" OAL (20" BBL 1:7) CONT.</b>					BC: .301	SD: .196
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
748	23.6	2468		26.3	2834	
IMR-4064	22.4	2344		25.5	2743	
Varget	23.4	2589		26.0+	2832	
IMR-4320	23.9	2595		26.5+	2922	
N140	23.4	2581		26.0+	2897	
RX15	23.9	2632		26.5+	2933	

<b>75 gr. Jacketed A-Max 2.390" OAL</b>					BC: .435	SD: .214
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	20.3	2548	36,500	22.6	2797	49,100
AA-2230	20.7	2462	35,300	23.0	2758	48,300
IMR-4895	21.6	2390	33,800	24.0	2720	49,100
H335	22.5	2577	37,000	25.1	2850	52,000
BL-C (2)	23.0	2545	36,300	25.6	2845	48,800
AA-2460	21.6	2495	39,300	24.0	2719	49,200
748	23.0	2490	35,700	25.5	2810	50,600
1MR-4064	22.2	2458	37,500	24.7	2767	49,000
Varget	23.0	2606	37,200	25.6	2843	48,600
IMR-4320	22.1	2408	36,800	24.6	2724	50,000
N140	22.7	2557	38,700	25.2	2773	49,000
RX15	23.4	2652	39,300	26.1	2923	52,400

<b>*77 gr. Jacketed HPBT 2.260" OAL (20" BBL 1:7)</b>					BC: .362	SD: .219
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	20.2	2395		22.5	2680	
AA-2230	21.7	2512		24.2	2827	
IMR-4895	22.0	2441		24.5+	2721	
H335	22.5	2458		25.0	2821	
BL-C (2)	23.0	2342		24.7	2745	
AA-2460	21.9	2433		24.3	2716	



<b>*77 gr. Jacketed HPBT 2.260" OAL (20" BBL 1:7) CONT.</b>					BC: .362	SD: .219
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
748	22.6	2348		24.1	2697	
IMR-4064	22.5	2393		25.0+	2736	
Varget	22.5	2460		25.0+	2705	
IMR-4320	22.0	2334		24.5+	2663	
N140	22.2	2422		24.7+	2696	
RX15	22.0	2472		24.5+	2741	

<b>77 gr. Jacketed HPBT 2.260" OAL</b>					BC: .362	SD: .219
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	20.2	2443	35,000	22.5+	2724	48,600
M2230	21.7	2589	38,800	24.2	2880	49,600
IMR-4895	22.0	2469	35,400	24.5+	2771	46,100
H335	22.5	2551	36,500	25.0	2851	51,200
BL-C (2)	23.0	2473	31,600	24.7	2858	50,400
AA-2460	21.9	2470	36,100	24.3	2788	51,000
748	22.6	2417	31,900	24.1	2800	50,300
IMR-4064	22.5	2475	34,600	25.0+	2772	46,200
Varget	22.5	2591	39,000	25.0+	2788	44,500
IMR-4320	22.0	2497	34,600	24.5+	2742	46,900
N140	22.2	2463	35,800	24.7+	2758	48,500
RX15	22.0	2544	36,900	24.5+	2803	46,400

<b>*80 gr. Jacketed HPBT 2.550" OAL (20" BBL 1:7)</b>					BC: .420	SD: .228
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	19.8	2348		22.2	2742	—
AA2230	21.5	2548		24.0	2795	
IMR-4895	22.0	2483		24,5+	2669	
H4895	21.8	2430		23,2+	2723	
H335	22.5	2471		25.0	2752	
BL-C (2)	23.4	2417		25.0	2791	

<b>*80 gr. Jacketed HPBT 2.550" OAL (20" BBL 1:7) CONT.</b>					BC: .420	SD: .228
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2460	21.7	2383		24.1	2681	
748	21.8	2332		24.0	2697	
IMR-4064	22.0	2413		24.0+	2654	
Varget	23.0	2499		25.0+	2761	
N140	22.0	2348		24.5+	2644	

<b>80 gr. Jacketed HPBT 2.550" OAL (20" BBL 1:7)</b>					BC: .420	SD: .228
Powder	Starting Grains	Velocity fps	Pressure C.U.P.	Max Grains	Velocity fps	Pressure CUP
AA-2015	19.8	2495	38,200	22.2	2769	51,100
AA-2230	21.5	2518	32,700	24.0	2849	47,500
1MR-4895	22.0	2467	33,200	24.5+	2789	47,500
H4895	21.8	2536	36,600	23.2+	2757	43,700
H335	22.5	2464	32,400	25.0	2834	48,600
BL-C (2)	23.4	2522	33,80()	25.0	2860	48,600
M-2460	21.7	2467	33,900	24.1	2744	48,500
748	21.8	2443	31,900	24.0	2799	50,100
IMR-4064	22.0	2451	33,700	24.0+	2833	49,500
Varget	23.0	2595	38,30()	25.0+	2823	46,500
IMR-4320	22.5	2460	34,000	25.0+	2777	48,400
N140	22.0	2453	34,()()()	24.5+	2734	46,200