

7.62 X 54R (RUSSIAN)**Test Specifications:**

Firearm Used: M44

Barrel Length: 20"

Twist: 1 x 10"

Components:

Case: Lapua

Trim-to Length: 2.105"

Primer: Remington 9 1/2

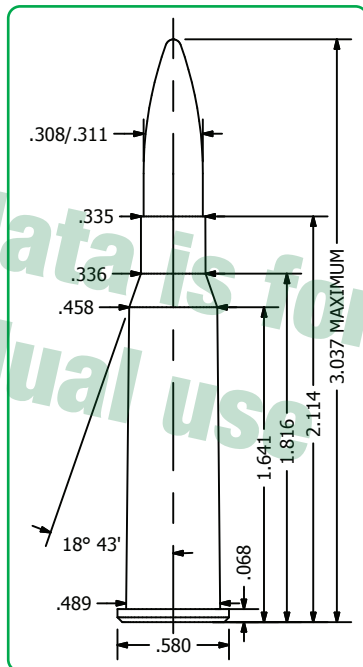
Remarks:

Few military cartridges have had so varied a history as the 7.62mm Russian. Also known as the 7.62x54R Russian, the cartridge was adopted by Imperial Russia in 1891. Originally chambered in the M1891 Mosin-Nagant bolt-action rifle, this rimmed 7.62mm round went on to serve as a standard service cartridge for the Soviet Union during the Second World War. Interestingly, the 7.62mm Russian not only predates the USSR, but survived it as well. Today, it still serves in both sniper rifles and machineguns in the reborn Russian Commonwealth.




At the time of the Mosin-Nagants adoption, Russia's manufacturing capabilities were extremely limited. This forced them to contract for production of their new service rifle with many different arms makers. Some of the most notable were SIG in Switzerland, Steyr in Austria and Remington and Westinghouse in the United States. The two U.S. firms delivered more than 1.5 million rifles between 1915-17. With the onslaught of the Russian revolution, these contracts were terminated, and large numbers of Mosin-Nagant M91 rifles were sold here as surplus. The 7.62mm Russian is comparable in performance to other military cartridges adopted around the turn of the century, such as the 30-06 Springfield and the 303 British. As it was loaded in 1891, the 7.62x54R drove a 212 grain bullet at approximately 2030 fps. Reflecting the changes in the ballistics of military cartridges of that era, the loading was changed in 1908 to a 148 grain bullet at approximately 2600 fps.

In addition to its military exploits, the 7.62x54R Russian has been a popular sporting cartridge. Literally millions of M91 Mosin-Nagant rifles and carbines were produced, and many of these have found their way into the hunting fields. Many Mosin-Nagants were brought home by U.S. servicemen returning from Korea and Vietnam. It is still an extremely popular cartridge in Finland, where it has scored many thousands of moose. The cartridge has excellent accuracy potential and has been used as a 300 meter round by Soviet Olympic riflemen.

CAUTION: There are considerable differences in the groove diameter of the 7.62x54R rifles. It would be wise and prudent to slug the barrel of the firearm before reloading. This data was produced with the .308" diameter bullets due to the rifle we were shooting had a smaller groove diameter.






7.62 X 54R (RUSSIAN)

	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2100	.308"	110gr.	RN	2.600"
	#2105	.308"	110gr.	FMJ	2.600"
	#2110	.308"	110gr.	HP	2.700"



Powder	Velocity	2600	2700	2800	2850	2900
A 2015		41.4	43.1	44.8	45.7	46.5
IMR 3031		43.9	46.7	49.5		
Benchmark		45.9	46.6	47.3		
748		49.3	51.2	53.2	54.1	55.1
H4895		45.8	47.8	49.8	50.8	51.8
IMR 4895		46.0	47.7	49.3	50.2	51.0
Varget		46.7	48.5	50.3		
IMR 4064			48.8	50.9	51.9	52.9
IMR 4320		49.0	51.2	53.4		
Viht N140		49.2	50.5	51.8	52.5	53.1
H380			52.2	54.9	56.2	57.5
Energy Ft. lbs		1651	1780	1915	1984	2054

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	748	53.2	2800	1915
Hunting Load	IMR-4895	51.0	2900	2054

7.62 X 54R (RUSSIAN)

	Bullet	Caliber	Weight	Type	C.O.A.L.		
	#2120	.308"	125gr.	SPT	2.800"		
	#2121	.308"	125gr.	HP Match	2.800"		
	#7725	.308"	125gr.	TMK	2.800"		
Powder	Velocity	2500	2600	2700	2800	2850	2900
A 2015		41.7	43.6	45.5			
IMR 3031		43.6	45.1	46.5			
Benchmark				45.1	46.1		
748		48.6	50.2	51.8	53.4	54.2	
IMR 4895		44.7	46.5	48.2			
Varget		45.6	47.3	49.0			
IMR 4064		46.1	47.7	49.3	50.9		
IMR 4320		47.0	48.9	50.8	52.7	53.7	
Viht N140		47.3	48.9	50.4	52.0		
RE 15		46.6	48.3	49.9	51.6		
H380			50.5	52.6	54.7	55.8	56.8
Energy Ft. lbs		1734	1876	2023	2176	2254	2334
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb			
Accuracy Load	IMR-4320	50.8	2700	2023			
Hunting Load	IMR-4320	53.7	2850	2254			








7.62 x 54R (RUSSIAN)

	Bullet	Caliber	Weight	Type	C.O.A.L.
	#7350	.308"	135gr.	SPT SSP	2.800"
	#2124	.308"	135gr.	HP	2.800"

Powder ▾	Velocity >	2400	2500	2600	2700	2800
A 2015		39.8	41.7	43.7	45.6	
IMR 3031		41.2	43.0	44.7	46.5	
Benchmark		41.2	42.6	44.0	45.4	
748			48.9	50.1	51.4	52.6
IMR 4895		42.3	44.1	46.0	47.8	
Varget		43.8	45.5	47.1	48.8	
IMR 4064		43.4	45.3	47.2	49.1	
IMR 4320		45.9	47.6	49.3	51.0	52.7
Viht N140		46.0	47.3	48.5	49.8	51.0
RE 15		45.1	46.6	48.1	49.6	51.1
H380			49.8	51.8	53.8	55.8
Energy Ft. lbs		1726	1873	2026	2185	2350

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	Viht N140	49.8	2850	2185
Hunting Load	A 2015	45.6	2850	2185






7.62 X 54R (RUSSIAN)

	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2115	.308"	150gr.	FMJBT	2.900"
	#2125	.308"	150gr.	SBT	2.900"
	#2130	.308"	150gr.	SPT	2.900"
	#2135	.308"	150gr.	RN	2.600"
	#2190	.308"	150gr.	HPBT MatchKing	2.900"
	#2155	.308"	155gr.	HPBT Palma MatchKing	2.900"
	#7755	.308"	155gr.	TMK	2.950"

Powder ▾	Velocity >	2300	2400	2500	2550	2600	2650	2700
A 2015		39.5	41.2	42.9	43.8	44.6		
IMR 3031		40.4	42.2	43.9				
Benchmark		41.2	42.2	43.3	43.8	44.3		
H4895		41.6	43.4	45.1	46.0	46.9		
IMR 4895		42.2	43.8	45.4	46.2	47.0		
Varget		43.0	44.4	45.7	46.3	47.0		
IMR 4064		42.8	44.5	46.2	47.1	47.9	48.8	
IMR 4320		44.0	45.9	47.7	48.7	49.6		
Viht N140		43.6	45.5	47.4	48.3			
RE 15		43.7	45.8	47.8	48.8			
H380				50.0	51.1	52.2	53.2	54.3
760		52.0	53.4	54.9	55.6	56.3		
IMR 4350		50.6	52.1	53.6	54.4	55.1		
Energy Ft. lbs		1762	1918	2081	2165	2251	2339	2428

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	IMR-3031	43.9	2500	2081
Hunting Load	IMR-4350	55.1	2600	2251







7.62 x 54R (RUSSIAN)

	Bullet	Caliber	Weight	Type	C.O.A.L.
	#2140	.308"	165gr.	HPBT	2.975"
	#2145	.308"	165gr.	SBT	2.975"
	#2200	.308"	168gr.	HPBT MatchKing	2.975"
	#4665	.308"	165gr.	TGK	2.975"
	#7768	.308"	168gr.	TMK	2.975"

Powder	Velocity	2200	2300	2400	2500	2600	2700
IMR 3031		39.6	41.3	43.0			
H4895		40.4	41.8	43.1	44.5		
A 2495		42.4	44.0	45.5	47.1	48.6	
IMR 4895		41.0	42.7	44.3	46.0		
Varget		41.1	42.7	44.4	46.0		
IMR 4064			42.8	44.6	46.4	48.2	
IMR 4320			43.8	45.6	47.4	49.2	
Viht N140		42.2	43.9	45.5	47.2		
RE 15		40.9	43.0	45.1	47.2		
H380			47.8	49.5	51.1	52.8	54.4
760		48.8	50.4	52.0	53.6	55.2	
IMR 4350			48.9	50.7	52.4		
Energy Ft. lbs		1773	1938	2110	2289	2476	2670

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	A 2495	47.1	2500	2289
Hunting Load	A 2495	48.6	2600	2476


7.62 X 54R (RUSSIAN)

Bullet	Caliber	Weight	Type	C.O.A.L.
	#2275	.308"	175gr. HPBT MatchKing	3.000"
	#2150	.308"	180gr. SPT	3.000"
	#2160	.308"	180gr. SBT	3.000"
	#2170	.308"	180gr. RN	2.800"
	#2220	.308"	180gr. HPBT MatchKing	3.000"
	#7775	.308"	175gr. TMK	3.000"



Powder	Velocity	2100	2200	2300	2400	2450	2500	2550
H4895			38.8	41.1	43.3			
A 2495		41.1	42.7	44.3	45.9	46.7	47.5	
IMR 4895		39.8	41.3	42.8	44.3			
Varget		39.5	41.2	42.9	44.6			
IMR 4064			40.4	42.6	44.9	46.0	47.1	
IMR 4320				44.9	46.7	47.7	48.6	49.5
Viht N140	40.7	42.5	44.2	46.0				
RE 15	40.6	42.5	44.3	46.2				
H380		45.3	47.4	49.5	50.5	51.6	52.6	
760	46.9	49.0	51.0	53.1	54.1			
IMR 4350		48.7	50.6	52.5	53.5			
Energy Ft. lbs		1713	1880	2055	2238	2332	2428	2526

Special Load	Powder	Grains	Velocity fps	Energy Ft. lb
Accuracy Load	IMR-4350	53.5	2450	2332
Hunting Load	IMR-4064	47.1	2500	2428

7.62 x 54R (RUSSIAN)



		Bullet Caliber Weight Type						C.O.A.L.
		#2210	.308"	190gr.	HPBT	MatchKing	3.000"	
Powder ∨	Velocity >	2200	2300	2350	2400	2450	2500	
H4895		40.6	42.3	43.2				
A 2495		42.9	44.5	45.3	46.1	46.9		
IMR 4895		41.1	43.0	43.9				
Varget		40.5	42.6	43.6	44.6			
IMR 4064		43.0	44.2	44.9	45.5	46.1		
IMR 4320			44.5	45.4	46.2	47.1	47.9	
Viht N140		42.1	44.1	45.1				
RE 15		41.3	43.5	44.5	45.6			
H380			46.5	47.6	48.7	49.7	50.8	
760		48.4	50.2	51.0	51.9	52.8		
IMR 4350		47.9	49.9	50.8	51.8	52.8		
Energy Ft. lbs		2042	2231	2329	2430	2532	2636	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	IMR-4064	45.5	2400	2430				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								

7.62 X 54R (RUSSIAN)

		Bullet Caliber Weight Type						C.O.A.L.
	#2165 .308" 200gr. SBT							3.037"
	#2230 .308" 200gr. HPBT MatchKing							3.037"
Powder ▾	Velocity >	2000	2100	2200	2300	2350	2400	
Varget		38.7	40.1	41.5	42.9	43.6		
IMR 4064			39.6	41.5	43.5	44.4	45.4	
IMR 4320			41.3	43.1	45.0	45.9	46.8	
Viht N540		39.2	41.3	43.3	45.4			
H380			44.0	46.0	48.0	49.0	50.0	
760		45.9	47.4	49.0	50.5	51.2	52.0	
Viht N550		43.6	45.1	46.6	48.1	48.9	49.6	
IMR 4350		45.2	47.0	48.8	50.5	51.4	52.3	
RE 19		47.1	49.1	51.1	53.1			
Energy Ft. lbs		1776	1958	2149	2349	2452	2558	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb				
Accuracy Load	IMR-4064	44.4	2350	2452				
Hunting Load	Viht N550	49.6	2400	2558				

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7.62 x 54R (RUSSIAN)

Bullet	Caliber	Weight	Type	C.O.A.L.						
	#2180	.308"	220gr. RN	2.800"						
	#2240	.308"	220gr. HPBT MatchKing	3.037"*						
*requires 1 x 10" twist or faster twist										
Powder	Velocity	2000	2100	2150	2200	2250	2300	2350	2400	
IMR 4064			39.7	41.0	42.2	43.5				
IMR 4320			40.7	41.8	43.0	44.1	45.2			
Viht N540		38.8	41.5	42.8						
H380			44.1	45.1	46.0	47.0	47.9	48.9	49.8	
760			45.1	46.7	47.5	48.2	49.0	49.8		
Viht N550			42.7	44.3	45.1	45.9	46.7			
IMR 4350			44.2	46.0	46.9	47.7	48.6	49.5		
IMR 4831			45.7	48.2	49.5	50.7	52.0			
H4831 SC			48.2	49.3	50.4	51.5				
Energy Ft. lbs		1954	2154	2258	2364	2473	2584	2697	2813	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lb						
Accuracy Load	IMR-4831	50.7	2200	2364						
Hunting Load	H4831 SC	51.5	2250	2473						