

220 SWIFT

Test Specifications:

- Firearm Used: Universal
- Barrel Length: 24"
- Twist: 1-10"

Components:

- Case: Winchester
- Trim-to Length: 2.195"
- Primer: WLR

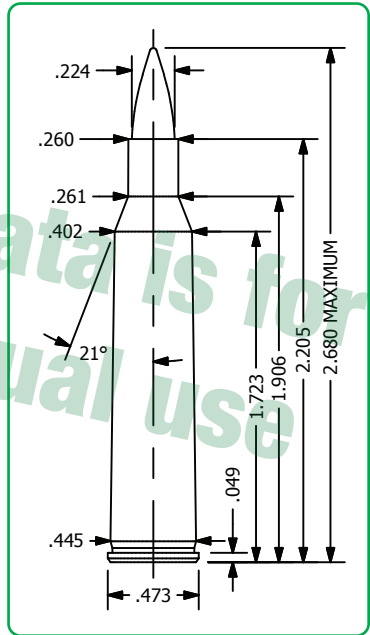
Remarks:

Introduced by Winchester in 1935, the 220 Swift was first chambered in the Model 54 bolt action rifle. Intended as a long range varmint round, the Swift soon developed a loyal following who praised it for everything from ground squirrels to grizzly bears. It also attracted an equally vocal group of detractors who damned it at every turn. As usual in such debates, the truth lies somewhere in the middle.



Some early gun writers, displaying more enthusiasm than common sense, used the Swift on a wide variety of big game. Small caliber, high velocity cartridges frequently give spectacular kills on large game. They also result in some equally spectacular failures. This simple fact set the stage for many caustic debates on the Swift's merits.

As a long range varmint cartridge, the Swift remains one of the fastest 22 caliber factory rounds, only bested by the 223 WSSM. Only a handful of wildcats can equal or exceed its performance. With this performance comes the critics most frequently heard complaint—short barrel life.. With velocities in excess of 4000 fps on tap, the 220 gives the shooter more of everything—more explosive bullet performance, more noise, more range, and more throat erosion. Some sources advocate downloading the Swift to prolong barrel life, but this seems somewhat counter productive. The very reason for using a Swift is to take advantage of the cartridge's potent performance. Proper cleaning technique and a bit of discretion will go a long way in extending the accuracy of a Swift barrel. Avoid firing long strings that excessively heat the barrel. Set and follow a regular cleaning regimen and always use a bore guide. By not letting fouling accumulate in the first place, a good Swift should give years of faithful and accurate service.

Among knowledgeable varminters, the Swift has always been held in respect. In the last few years no major Manufacturer has chambered the Swift. Either building a rifle or buying a custom firearm are your best options for owning one. Either way, special attention to twist rate is advised based upon preferred bullet choices. With several long range bullets available, twist rate selection is very important.




ZZO SWIFT

	Bullet	Caliber	Weight	Type	C.O.A.L.				
	#1385	.224"	40gr.	HP	2.680"				
	#1440	.224"	40gr.	BlitzKing	2.680"				
Powder ▾	Velocity >	3500	3600	3700	3800	3900	4000	4100	
H4895				34.0	35.1	36.1	37.0	37.9	
IMR 4895		33.7	34.7	35.7	36.6	37.5	38.5		
Varget		35.1	36.1	37.1	38.0	38.9	39.8	40.6	
Power Pro 2000 MR				38.6	40.7	42.2			
RE 16			39.0	40.1	41.1	42.1	43.2		
AR Comp				33.2	34.3	35.4	36.5	37.4	
Energy Ft. Lbs		1088	1151	1216	1282	1351	1421	1493	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	IMR 4895	38.5	4000	1421					
Hunting Load	H4895	37.9	4100	1493					





Do not edit or
redistribute.

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Bullet		Caliber	Weight	Type	C.O.A.L.				
	#1310	.224"	45gr.	SPT	2.680"				
Powder	Velocity	3400	3500	3600	3700	3800	3900	4000	
H4895			32.8	33.8	34.7	35.7	36.6	37.6	
IMR 4166 End.		33.0	34.0	35.1	36.3	37.5			
IMR 4064		33.8	34.7	35.6	36.5	37.5	38.4		
Varget			35.0	36.0	37.0	38.1	39.1		
Power Pro 2000 MR		36.5	37.7	38.9	40.0	41.1			
AR Comp			31.2	32.3	33.5	34.7	36.1		
Energy Ft. Lbs		1155	1224	1295	1368	1443	1520	1598	
Special Load	Powder	Grains		Velocity fps	Energy Ft. lbs				
Accuracy Load	IMR 4064	38.4	3900	1520					
Hunting Load	H4895	37.6	4000	1598					

Do not edit or
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Bullet	Caliber	Weight	Type	C.O.A.L.
	#1320	.224"	50gr. SMP	2.680"
	#1330	.224"	50gr. SPT	2.680"
	#1340	.224"	50gr. Blitz	2.680"
	#1450	.224"	50gr. BlitzKing	2.680"

Powder	Velocity	3300	3400	3500	3600	3700	3800
H4895			31.9	33.0	34.0	35.2	36.4
IMR 4166 End.		32.4	33.7	34.9	36.0	37.0	
IMR 4064		32.7	33.8	34.8	35.9	36.9	
Varget			34.0	35.2	36.5	37.7	38.8
Power Pro 2000 MR		35.4	36.6	37.7	38.8	39.8	40.8
N540			34.3	35.5	36.6	37.7	38.6
IMR 4451 End.		37.6	38.7	39.8	40.9	42.0	
H4350		37.0	38.2	39.3	40.4	41.5	
RE 16		35.9	37.2	38.3	39.4	40.4	41.2
RE 17		36.6	37.7	38.7	39.6	40.5	41.4
AR Comp			30.6	32.0	33.3	34.6	
Energy Ft. Lbs		1209	1283	1360	1439	1520	1603

Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
Accuracy Load	AR Comp	34.6	3700	1520
Hunting Load	H4895	36.4	3800	1603

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	Bullet	Caliber	Weight	Type	C.O.A.L.
	#1410	.224"	52gr.	HPBT Match	2.680"
	#1400	.224"	53gr.	HP Match	2.680"
	#1345	.224"	55gr.	Blitz	2.680"
	#1350	.224"	55gr.	SMP	2.670"
	#1355	.224"	55gr.	FMJBT	2.660"
	#1360	.224"	55gr.	SPT	2.680"
	#1365	.224"	55gr.	SBT	2.680"
	#1390	.224"	55gr.	HPBT	2.680"
	#1455	.224"	55gr.	BlitzKing	2.680"*




*55gr BlitzKing requires a 1x12" or faster twist

Powder	Velocity	3150	3250	3350	3450	3550	3650	3700
IMR 4064		30.0	31.2	32.4	33.6	35.0		
Varget				31.6	33.7	35.4		
Big Game			34.8	35.6	36.6	37.8	39.2	
N540			31.8	33.3	34.7	36.0	37.3	
IMR 4451 End.			36.2	37.6	38.9	40.2		
A 4350					39.5	41.8		
H4350		34.2	35.7	37.1	38.4	39.7	40.9	
RE 16				36.5	37.8	39.1	40.2	40.7
RE 17				35.7	37.1	38.4	39.6	40.1
Hybrid 100V			36.0	37.2	38.4	39.5	40.7	41.2
Energy Ft. Lbs		1145	1219	1296	1374	1455	1538	1580




Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs
Accuracy Load	IMR 4064	35.0	3550	1455
Hunting Load	RE 16	40.7	3700	1580

Sierra does not recommend MatchKing bullets for hunting applications.





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	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#1375	.224"	60gr.	HP	2.680"			
	#7160	.224"	60gr.	TMK	2.800"*			
	#1370	.224"	63gr.	SMP	2.680"			
*requires a 1x10" or faster twist								
Powder	Velocity	3000	3100	3200	3300	3400	3450	3500
IMR 4064		29.1	30.4	31.8	33.3			
H380		32.4	33.8	35.1	36.3	37.6		
Big Game			34.5	35.6	36.9	38.3	39.0	
N540		30.3	31.4	32.6	33.9	35.2		
IMR 4451 End.			35.4	37.0	38.4	39.6		
H4350				34.7	36.9	38.6	39.3	
RE 16				34.0	35.7	37.3	38.0	38.7
RE 17				35.1	36.4	37.6	38.3	38.9
H100V		32.2	33.7	35.1	36.5	38.0	38.7	39.4
Energy Ft. Lbs		1199	1280	1364	1451	1540	1585	1632
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
Accuracy Load	RE 17	38.9	3500	1632				
Hunting Load	RE 16	38.7	3500	1632				


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	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#1395	.224"	65gr.	SBT	2.680"*			
	#1380	.224"	69gr.	HPBT Match	2.765"*			
	#7169	.224"	69gr.	TMK Match	2.800"*			
*requires a 1x10" or faster twist								
Powder	Velocity	2800	2900	3000	3100	3200	3300	3400
RE 15		28.8	29.6	30.6	31.8	33.0	34.3	35.8
H380		30.3	31.7	33.0	34.2	35.5	36.7	
Big Game		30.8	32.2	33.6	34.9	36.2	37.5	
IMR 4451 End.		32.6	33.7	34.9	36.1	37.3	38.5	
A 4350		31.5	32.8	34.1	35.4	36.6	37.9	39.1
H4350		31.5	32.8	34.1	35.4	36.7	37.9	
RE 16			31.8	33.1	34.4	35.7	36.9	38.0
RE 17			32.0	33.1	34.2	35.4	36.6	37.8
RE 19		34.7	36.0	37.2	38.4	39.6	40.7	41.9
H4831sc		34.3	35.7	37.0	38.3	39.6	40.8	
IMR 4955 End.		33.3	34.5	35.8	37.1	38.4		
Energy Ft. Lbs		1131	1214	1299	1387	1478	1571	1668
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
Accuracy Load	H4350	37.9	3300	1571				
Hunting Load	RE 15	35.8	3400	1668				
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>								

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	Bullet	Caliber	Weight	Type	C.O.A.L.			
	#9377	.224"	77gr.	HPBT Match	2.760"*			
	#9377G	.224"	77gr.	HPBT Match Cannelured	2.760"*			
	#7177	.224"	77gr.	TMK Match	2.840"*			
	#9390	.224"	80gr.	HPBT Match	2.940"*			
*requires a 1x8" or faster twist								
Powder	Velocity	2600	2700	2800	2900	3000	3100	3200
IMR 4451 End.		30.1	30.4	31.1	32.2	33.6	35.4	
A 4350						31.4	33.8	
H4350			28.3	29.8	31.3	32.9	34.5	
RE 16				31.5	32.4	33.5	35.1	
RE 17				31.6	32.5	33.5	34.5	35.5
Hybrid 100V				31.3	32.9	34.4	35.9	
RE 19			33.2	34.8	36.1	37.4	38.5	39.4
H4831sc					34.0	35.6	37.1	
IMR 4955 End.		30.0	31.3	32.6	33.9	35.3	36.7	
RE 22			34.0	35.1	36.2	37.4	38.5	
N560			32.0	33.6	35.1	36.5	38.0	39.3
H1000					33.1	34.6	37.1	
Energy Ft. Lbs		1156	1246	1340	1438	1539	1643	1750
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs				
Accuracy Load	N560	39.3	3700	1750				
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Bullet		Caliber	Weight	Type	C.O.A.L.				
	#9290	.224"	90gr.	HPBT Match	2.940"*				
*requires a 1x6.5" or faster twist		**requires a 1x7" twist @2650fps and faster							
Powder	Velocity	2550	2650	2750	2850	2950	3000		
IMR 4451 End.			29.8	32.6	34.3				
RE 16			28.5	30.3	32.0				
RE 17			29.0	30.4	32.0				
Hybrid 100V			29.8	31.8	33.5				
RE 19	32.1	33.4	34.7	36.0	37.2	37.8			
H4831sc				32.3	34.4				
RE 22		31.0	32.9	34.7	36.4	37.3			
N560				34.2	36.2	37.7			
RE 23				32.1	34.1	36.3			
H1000				34.2	36.2	38.1			
Magnum			37.8	40.1	41.7	42.7	42.9		
Energy Ft. Lbs			1299	1403	1511	1623	1739	1798	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs					
Accuracy Load	RE 23	36.3	2950	1739					
<i>Sierra does not recommend MatchKing bullets for hunting applications.</i>									

Bullet		Caliber	Weight	Type	C.O.A.L.					
	#1396	.224"	95gr.	HPBT Match	2.940"*					
*requires a 1x6.5" or faster twist										
Powder	Velocity	2500	2600	2700	2750	2800	2850	2900		
RE 17			29.2	30.6	31.4	32.1	32.9	33.7		
H100V	28.2	29.6	31.1	31.9	32.7	33.5				
RE 19			32.1	33.8	34.6	35.3	36.0	36.6		
H4831sc			30.7	32.5	33.5	34.4	35.4			
RE 22			30.7	32.3	33.1	33.9	34.8	35.6		
N560			31.2	32.7	33.5	34.4	35.4			
RE 23			30.8	32.4	33.2	34.0	34.8			
RE 25			33.7	35.2	36.0	36.8	37.6	38.3		
IMR 7977 End.	34.3	35.4	36.7	37.4	38.1	38.8	39.6			
H1000			33.1	35.0	35.9	36.6	37.3	37.9		
RE 26				33.7	34.6	35.5	36.2	37.0		
Magnum				38.0	38.9	39.8	40.5	41.1		
Energy Ft. Lbs			1318	1426	1538	1595	1654	1713	1774	
Special Load	Powder	Grains	Velocity fps	Energy Ft. lbs						
Accuracy Load	RE 17	33.7	2900	1774						
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