

22 PPC**Test Specifications:**

Firearm Used: Savage 11

Barrel Length: 26"

Twist: 1 x 8"

Components:

Case: Norma

Trim-to Length: 1.505"

Primer: Rem 7 1/2

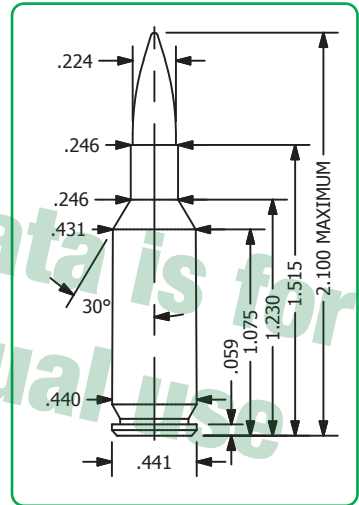
Remarks:

Since its introduction in 1950, the 222 Remington reigned as the undisputed king of benchrest competition. The group shooters, however, got a bit of a jolt in 1975 when a pair of stubby newcomers started making inroads into the 222's domain. Developed in late 1974 by Ferris Pindell and Dr. Louis Palmisano, the 22 and 6mm PPC cartridges immediately began to make a name for themselves.



Benchrest shooters are an extremely pragmatic group, and they soon adopted the PPC as the cartridge for accuracy shooters. In recent years, benchrest shooters have moved to the 6mm bore size almost exclusively, pushing the 22 PPC out of the picture.

While conceived specifically as a benchrest round, the 22 PPC generates ample velocity to also make it a respectable varmint cartridge. Most rifles built for the 22 PPC will have a 1x14" twist, which limits bullet selection to about 55 grains or lighter. Sierra's Blitz and BlitzKing bullets are an ideal choice for varminting out to about 300-350 yards.

The PPCs are based on the 220 Russian cartridge, which in turn is loosely based on the Soviet 7.62x39mm M43 case. An odd irony, perhaps, is that the most accurate cartridges ever developed are based on a short range combat round intended for use in full auto infantry weapons. Cases for both the 22 and 6mm PPC can be made from the 7.62x39mm. However, with Sako, Norma, and Lapua PPC cases available, this should not be necessary. It must be noted that cases for the 7.62x39mm are made with both large and small primer pockets. The data that follows was developed using the standard Remington 7 1/2 small rifle primers. If 7.62x39mm cases with large primer pockets are used to form PPC cases, the loads must be reduced to the minimum levels shown and worked up carefully because the large primers will raise pressures dramatically. Hodgdon's H322 powder gave the best results in our test rifle, showing fine accuracy and good velocity.




22 PPC

| Bullet | Caliber | Weight | Type | C.O.A.L. |
|--|---------|--------|-----------------|----------|
|  | #1385 | .224" | 40gr. HP | 2.025" |
|  | #1440 | .224" | 40gr. BlitzKing | 2.100" |

| Powder ∨ | Velocity > | 3500 | 3600 | 3700 | 3800 | 3900 | 4000 |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Viht N133 | | 27.0 | 27.6 | 28.2 | 28.8 | | |
| IMR 4198 | | 24.0 | 24.6 | 25.3 | 25.9 | 26.5 | |
| A 2015 | | 27.4 | 28.0 | 28.6 | 29.2 | | |
| RE 7 | | | 25.0 | 25.7 | 26.4 | 27.1 | |
| Benchmark | | 27.8 | 28.5 | 29.2 | 29.9 | 30.6 | |
| H322 | | 26.4 | 27.2 | 27.9 | 28.7 | 29.4 | 30.2 |
| A 2230 | | 28.1 | 28.8 | 29.5 | 30.2 | | |
| 748 | | 30.2 | 30.9 | 31.6 | | | |
| BL C(2) | | 31.5 | 32.4 | | | | |
| Energy Ft. lbs | | 1088 | 1151 | 1216 | 1282 | 1351 | 1421 |





| Special Load | Powder | Grains | Velocity fps | Energy Ft. lbs |
|----------------------|-----------|--------|--------------|----------------|
| Accuracy Load | Viht N133 | 28.2 | 3700 | 1216 |
| Hunting Load | H322 | 30.2 | 4000 | 1421 |

| Bullet | Caliber | Weight | Type | C.O.A.L. |
|---|---------|--------|-----------|----------|
|  | #1310 | .224" | 45gr. SPT | 2.025" |



| Powder ∨ | Velocity > | 3300 | 3400 | 3500 | 3600 | 3700 |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|
| Viht N133 | | 25.4 | 26.1 | 26.9 | 27.6 | |
| IMR 4198 | | | | 24.2 | 25.0 | 25.7 |
| A 2015 | | 25.9 | 26.6 | 27.3 | 28.0 | |
| Benchmark | | 26.2 | 27.0 | 27.7 | 28.5 | |
| H322 | | 25.2 | 26.1 | 27.0 | | |
| A 2230 | | | | 28.2 | 29.1 | 30.0 |
| 748 | | | 29.8 | 30.5 | 31.1 | 31.8 |
| BL C(2) | | 30.3 | 31.2 | 32.1 | | |
| Energy Ft. lbs | | 1088 | 1155 | 1224 | 1295 | 1368 |

| Special Load | Powder | Grains | Velocity fps | Energy Ft. lbs |
|----------------------|-----------|--------|--------------|----------------|
| Accuracy Load | A 2015 | 27.3 | 3500 | 1224 |
| Hunting Load | Benchmark | 28.5 | 3600 | 1295 |

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| | | Bullet | Caliber | Weight | Type | | | C.O.A.L. |
|---|----------|-------------|--------------|----------------|-------------|-------------|-------------|----------|
|  | | #1320 | .224" | 50gr. | SMP | | | 2.050" |
|  | | #1330 | .224" | 50gr. | SPT | | | 2.075" |
|  | | #1340 | .224" | 50gr. | Blitz | | | 2.075" |
|  | | #1450 | .224" | 50gr. | BlitzKing | | | 2.080" |
| Powder | Velocity | 3200 | 3300 | 3400 | 3450 | 3500 | 3550 | |
| Viht N133 | | 24.1 | 25.1 | 26.1 | | | | |
| IMR 4198 | | | 22.6 | 23.6 | 24.1 | | | |
| A 2015 | | 24.5 | 25.5 | 26.5 | | | | |
| RE 7 | | 21.6 | 22.5 | 23.4 | 23.9 | 24.3 | | |
| Benchmark | | 26.3 | 26.8 | 27.3 | 27.5 | 27.8 | | |
| H322 | | 24.5 | 25.5 | | | | | |
| A 2230 | | 25.7 | 26.6 | 27.5 | 28.0 | 28.4 | | |
| 748 | | 27.8 | 28.7 | 29.6 | | | | |
| BL C(2) | | 29.0 | 30.0 | 31.0 | 31.5 | 32.0 | 32.5 | |
| Varget | | 28.2 | 28.9 | 29.6 | 29.9 | 30.3 | 30.6 | |
| Energy Ft. lbs | | 1137 | 1209 | 1283 | 1321 | 1360 | 1399 | |
| Special Load | Powder | Grains | Velocity fps | Energy Ft. lbs | | | | |
| Accuracy Load | IMR 4198 | 23.6 | 3400 | 1283 | | | | |
| Hunting Load | A 2230 | 28.4 | 3500 | 1360 | | | | |

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| | Bullet | Caliber | Weight | Type | C.O.A.L. |
|--|--------|---------|--------|----------------|----------|
|  | #1410 | .224" | 52gr. | HPBT MatchKing | 2.060" |
|  | #1400 | .224" | 53gr. | HP MatchKing | 2.060" |

| Powder ▾ | Velocity > | 3100 | 3200 | 3300 | 3350 | 3400 | 3450 | 3500 |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| Viht N133 | | 24.0 | 25.0 | 26.0 | | | | |
| IMR 4198 | | 21.8 | 22.6 | 23.4 | 23.8 | | | |
| A 2015 | | 24.3 | 25.3 | 26.3 | | | | |
| RE 7 | | 21.4 | 22.4 | 23.4 | 23.9 | 24.4 | | |
| Benchmark | | 24.6 | 25.5 | 26.4 | 26.9 | 27.3 | 27.8 | |
| H322 | | 24.1 | 24.9 | 25.7 | 26.1 | | | |
| A 2230 | | 25.1 | 26.1 | 27.1 | 27.6 | 28.1 | 28.6 | |
| 748 | | 26.9 | 27.9 | 28.9 | 29.4 | 29.9 | | |
| BL C(2) | | 27.6 | 28.8 | 30.0 | 30.6 | 31.2 | 31.8 | |
| Varget | | 27.3 | 28.1 | 28.9 | 29.3 | 29.7 | 30.1 | 30.5 |
| Energy Ft. lbs | | 1109 | 1182 | 1257 | 1296 | 1335 | 1374 | 1414 |

| Special Load | Powder | Grains | Velocity fps | Energy Ft. lbs |
|----------------------|----------|--------|--------------|----------------|
| Accuracy Load | IMR 4198 | 23.4 | 3300 | 1257 |

Sierra does not recommend MatchKing bullets for hunting applications.

22 PPC

| | Bullet | Caliber | Weight | Type | C.O.A.L. |
|---|--------|---------|--------|-----------|----------|
|  | #1345 | .224" | 55gr. | Blitz | 2.075" |
|  | #1350 | .224" | 55gr. | SMP | 2.060" |
|  | #1355 | .224" | 55gr. | FMJBT | 2.075" |
|  | #1360 | .224" | 55gr. | SPT | 2.075" |
|  | #1365 | .224" | 55gr. | SBT | 2.075" |
|  | #1390 | .224" | 55gr. | HPBT | 2.025" |
|  | #1455 | .224" | 55gr. | BlitzKing | 2.080"* |

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

| Powder ▾ | Velocity > | 3000 | 3100 | 3200 | 3300 | 3350 |
|-----------------------|------------|-------------|-------------|-------------|-------------|-------------|
| IMR 4198 | | 21.1 | 21.9 | 22.7 | 23.5 | |
| A 2015 | | 23.4 | 24.1 | 24.8 | | |
| RE 7 | | 20.9 | 21.8 | 22.7 | 23.6 | |
| Benchmark | | 24.3 | 25.1 | 25.9 | 26.7 | 27.1 |
| H322 | | 23.6 | 24.3 | 25.0 | | |
| A 2230 | | 24.8 | 25.5 | 26.2 | 26.9 | |
| BL C(2) | | | 28.0 | 28.5 | 29.0 | |
| Viht N135 | | | 24.8 | 25.8 | 26.8 | 27.3 |
| Energy Ft. lbs | | 1099 | 1173 | 1250 | 1330 | 1370 |

| Special Load | Powder | Grains | Velocity fps | Energy Ft. lbs |
|----------------------|-----------|--------|--------------|----------------|
| Accuracy Load | H322 | 25.0 | 3200 | 1250 |
| Hunting Load | Viht N135 | 26.8 | 3300 | 1330 |