6.5 X 55mm Swedish

Test Specifications:

Firearm Used: M96 Swedish Mauser

Barrel Length: 29.5"

Twist: 1 x 8.5"

Components:

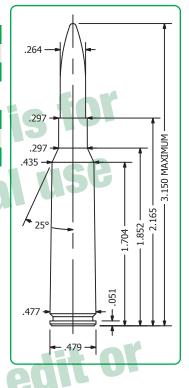
Case: Federal

Trim-to Length: 2.155"

Primer: Fed 210

Remarks:

The 6.5x55mm was first adopted as a military cartridge over 100 years ago, and it is still an effective performer today. First introduced to the American shooting public in the form of inexpensive surplus military rifles, it has developed an enviable reputation for fine accuracy and mild recoil. In recent years, Remington, Winchester, Ruger, CZ, and Tikka have all chambered rifles for this cartridge, adding to its new found popularity among U.S. shooters. In the Scandinavian countries, however, the 6.5x55mm has always been a mainstay for both hunters and competitive match shooters.



By using Sierra bullets ranging from the 85 grain hollow point Varminter to the 140 grain SBT GameKing, the mild little Swede is capable of handling most North American hunting situations. As with any small caliber rifle used for big game, proper bullet selection and accurate shot placement are essential for optimum results. The GameChanger bullets will also add to the the versatility of the Swedish Mauser. Toughly constructed with Match accuracy giving deeper penetration on larger game animals.

Brass can be limited at times, with some Manufacturers doing seasonal runs. As with most foreign cartridges, military brass will be Berdan primed, making it unsuitable for reloading. Some sources have suggested making cases from the 270 or 30 06, but we do not recommend this practice. Such reformed cases will be approximately .007" undersized at the head and result in a pronounced bulge above the extractor groove when fired. In loading for the 6.5x55mm, bear in mind that the older military rifles were designed for pressures in the 45,000 psi range.



6.5 x 55mm Swedisk

| | Bullet Calib | er Weight T | ype | | C.O.A.L. |
|----------------|--------------|-------------|----------|------|----------------|
| | #1700 .264 | " 85gr. H | Р | | 2.800" |
| Powder 🗸 Veloc | ity > 3000 | 3100 3200 | 3300 | 3400 | 3500 |
| IMR 3031 | 39.3 | 40.5 41.7 | 42.9 | | |
| Benchmark | | 40.2 41.3 | | | |
| IMR 4895 | 41.3 | 42.5 43.7 | 44.9 | 46.1 | |
| Varget | 41.5 | 42.7 43.9 | 45.1 | | |
| IMR 4064 | 40.3 | 41.5 42.7 | 43.9 | 45.1 | 46.3 |
| IMR 4320 | 42.0 | 43.2 44.3 | 45.5 | 46.6 | |
| A 2700 | 43.9 | 45.2 46.4 | 47.7 | | |
| H380 | 44.4 | 45.6 46.9 | 48.1 | 49.4 | 50.6 |
| Viht N150 | | 43.3 44.3 | | | |
| RE 19 | | 50.5 52.0 | | | |
| Energy Ft. Ibs | 1698 | 1813 1932 | 2055 | 2181 | 2312 |
| | | | | | |
| Special Load | Powder | Grains | Velocity | fps | Energy Ft. Ibs |
| Accuracy Load | IMR 3031 | 41.7 | 3200 | | 1932 |
| Hunting Load | IMR 4064 | 45.1 | 3400 | | 2181 |
| | | | | | |
| YUT | Bullet Calib | er Weight T | ype | | C.O.A.L. |

| | Bullet Cali | ber We | ight Ty | ype | | | C.O.A.L. |
|-------------------|-------------|--------|---------|-------------|-------|----------|----------|
| | #1710 .26 | 4" 10 | Ogr. H | Р | | | 2.850" |
| Powder 🗸 Velocity | y > 2700 | 2800 | 2900 | 3000 | 3100 | 3200 | |
| IMR 3031 | 35.8 | 37.2 | 38.6 | 40.0 | 41.4 | | |
| Benchmark | | 37.5 | 38.9 | 40.2 | | | |
| IMR 4895 | 37.5 | 39.0 | 40.4 | 41.9 | 43.3 | | |
| Varget | 37.5 | 39.0 | 40.6 | 42.1 | 43.6 | | |
| IMR 4064 | 37.3 | 38.7 | 40.0 | 41.4 | 42.7 | 44.1 | |
| IMR 4320 | 37.7 | 39.1 | 40.5 | 41.9 | 43.3 | 44.7 | |
| A 2700 | | 42.3 | 43.9 | 45.5 | 47.1 | | |
| H380 | | | 42.7 | 44.3 | 45.8 | 47.4 | |
| Viht N150 | 37.0 | 38.7 | 40.4 | 42.1 | | | |
| RE 19 | | 46.0 | 47.6 | 49.3 | 50.9 | | |
| Energy Ft. Ibs | 1618 | 1741 | 1867 | 1998 | 2133 | 2273 | |
| | | | | | | | |
| Special Load | Powder | Gra | ins | Velocity | / fps | Energy I | Ft. Ibs |
| Accuracy Load | IMR 3031 | 40. | 0 | 3000 | | 1998 | |
| Hunting Load | IMR 4064 | 44. | 1 | 3200 | | 2273 | |
| | | | | | | | |



SIERRA RELOADING MANUAL • SIXTH EDITION

6.5 X 55mm Swedish

| | Bullet Cali | ber Weigh | it Type | | | C.O.A.L. |
|--|---|--|---|--|----------|---------------|
| | #1715 .26 | 4" 107gr | . HPBT Ma | tchKing | | 3.000" |
| | #7407 .26 | 4" 107gr | . TMK | | | 3.000" |
| Powder 🗸 Vela | ocity > 2700 | 2800 2 | 900 3000 | 3100 | 3200 | |
| IMR 3031 | | 35.8 3 | 7.4 39.0 | 40.6 | | |
| Benchmark | | | 7.0 38.2 | | | |
| IMR 4895 | 37.9 | | 0.5 41.8 | | | |
| Varget | 38.1 | | 0.7 42.0 | | | |
| IMR 4064 | 38.8 | | 1.4 42.7 | C | | |
| IMR 4320 | 38.3 | | 1.1 42.5 | | | |
| A 2700 | 41.0 | | 3.8 45.2 | 40.0 | 47.0 | |
| H380 Viht N150 | 38.0 | | 3.4 44.7 1.0 42.5 | 46.0 | 47.3 | |
| RE 19 | 43.6 | | 1.0 42.5 6.6 48.1 | 49.6 | | |
| Energy Ft. Ibs | 43.0 1732 | | 998 2138 | 2283 | 2432 | |
| LIICIYY I L. IDS | 1752 | 1002 1 | 550 2150 | 2203 | 2432 | |
| Special Load | Powder | Grains | s Velocit | y fps E | Energy | Ft. Ibs |
| Accuracy Load | A 2700 | 45.2 | 3000 | 2 | 2138 | |
| Sierra does not re | ecommend Mate | hKing bull | ets for hunti | ng appli | ications | |
| | | | | 0 11 | | |
| | Rullot Pali | her Weinh | t Tyno | | | P 0 A 1 1 |
| | Bullet Calil | SCI WCIGII | l Type | | | C.O.A.L. |
| | #1720 .264 | | | | | 3.000" |
| | #1720 .264 | 4" 120gr | | chKing | | |
| Powder V Vela | #1720 .264 | 4" 120gr 4" 120gr | . SPT | cchKing 3000 | B | 3.000" |
| Powder ∨ Vela IMR 3031 | #1720 .264 #1725 .264 | 4" 120gr 4" 120gr 2700 2 | . SPT . HPBT Mat | | B | 3.000" |
| | #1720 .264 #1725 .264 pcity > 2600 | 4" 120gr 4" 120gr 2700 2 36.5 3 | . SPT . HPBT Mat 800 2900 | | B | 3.000" |
| IMR 3031 Benchmark IMR 4895 | #1720 .264 #1725 .264 pcity > 2600 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 | | B | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget | #1720 .264 #1725 .264 bcity > 2600 34.8 36.8 37.1 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 | | B | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 | #1720 .264 #1725 .264 acity > 2600 34.8 36.8 37.1 36.2 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 9.7 41.4 | | 8. | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 | 3000 | 8. | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 | | 8. | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 A 4350 | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 42.1 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 43.6 4 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 5.0 | 3000 45.9 | 8. | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 A 4350 RE 19 | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 42.1 43.6 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 43.6 4 45.1 4 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 5.0 6.6 48.1 | 3000 | 8. | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 A 4350 RE 19 Viht N160 | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 42.1 43.6 41.5 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 41.0 4 43.6 4 45.1 4 43.2 4 | . SPT . HPBT Mat 800 2900 8.3 40,0 7.9 39,2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 5.0 6.6 48.1 4.9 46.6 | 3000 45.9 49.6 | 8 | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 A 4350 RE 19 | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 42.1 43.6 | 4" 120gr 2700 2 36.5 3 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 43.6 4 45.1 4 43.2 4 | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 5.0 6.6 48.1 | 3000 45.9 | B | 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 A 4350 RE 19 Viht N160 | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 42.1 43.6 41.5 | 4" 120gr 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 41.0 4 43.6 4 45.1 4 43.2 4 | . SPT . HPBT Mat 800 2900 8.3 40,0 7.9 39,2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 5.0 6.6 48.1 4.9 46.6 089 2240 | 3000 45.9 49.6 2398 | | 3.000" 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 A 4350 RE 19 Viht N160 Energy Ft. Ibs Special Load Accuracy Load | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 42.1 43.6 41.5 1801 Powder Viht N160 | 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 43.6 4 43.6 4 43.6 4 43.1 4 43.2 4 1942 2 Grains 44.9 | . SPT . HPBT Mat 800 2900 8.3 40,0 7.9 39,2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 5.0 6.6 48.1 4.9 46.6 089 2240 | 3000 45.9 49.6 2398 (fps E | inergy I | 3.000" 3.000" |
| IMR 3031 Benchmark IMR 4895 Varget IMR 4064 IMR 4320 H380 A 4350 RE 19 Viht N160 Energy Ft. Ibs Special Load | #1720 .264 #1725 .264 ocity > 2600 34.8 36.8 37.1 36.2 37.3 39.3 42.1 43.6 41.5 1801 Powder | 4" 120gr 2700 2 36.5 3 36.5 3 38.4 4 38.6 4 37.9 3 39.0 4 41.0 4 43.6 4 43.6 4 43.2 4 1942 2 Grains | . SPT . HPBT Mat 800 2900 8.3 40.0 7.9 39.2 0.0 41.6 0.1 9.7 41.4 0.7 42.4 2.6 44.3 5.0 6.6 48.1 4.9 46.6 089 2240 Velocity | 3000 45.9 49.6 2398 / fps E 2 | | 3.000" 3.000" |

INDICATES MAXIMUM LOAD - USE CAUTION LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.



V. RIFLE RELOADING DATA

6.5 x 55mm Swedish

| | Bull | let Calib | oer Wei | ight T | ype | | | C.O.A.L. |
|--|--|---|--|--|--|--------|------------------------|---------------------|
| | #17 | 30 .264 | 1" 140 |)gr. S | BT | | | 3.050" |
| | #17 | 40 .264 | 4" 140 |)gr. H | PBT Mate | chKing | | 3.050" |
| | #17 | 42 .264 | 4" 142 | 2gr. H | PBT Mate | chKing | | 3.100"* |
| *requires a | 1x8" or faster tv | wist | | | G | | | |
| Powder \vee | Velocity > | 2300 | 2400 | 2500 | 2600 | 2700 | | Ur |
| IMR 3031 | | 31.3 | 33.6 | 35.9 | 21 | | | |
| IMR 4895 | | 32.1 | 34.3 | 36.4 | ♥ 38.6 | | | |
| Varget | In L | 31.6 | 33.7 | 35.8 | | Ч | | |
| IMR 4064 | | | 34.1 | 36.1 | 38.0 | 40.0 | | |
| IMR 4320 | | | 34.5 | 37.0 | 39.4 | | | |
| A 4350 | | 36.3 | 38.3 | 40.2 | 42.2 | 44.1 | | |
| RE 19 | | 36.1 | 38.5 | 40.9 | 43.3 | | | |
| RE 22 | | 37.7 | 39.7 | 41.7 | | 45.7 | | |
| Energy Ft. I | bs | 1644 | 1790 | 1943 | 2101 | 2266 | | |
| | | | | | | | | |
| Special Loa | id Po | wder | Gra | ins | Velocity | fps | Energy | Ft. Ibs |
| Special Loa Accuracy Lo | | wder rget | | | Velocity 2500 | fps | Energy 1943 | Ft. Ibs |
| | oad Va | | Gra 35.1 43.1 | 8 5 | | | | Ft. Ibs |
| Accuracy Lo | oad Va ad RE | rget 22 | 35.1 43. | 8 | 2500 2600 | | 1943 | |
| Accuracy Lo | oad Va ad RE | rget | 35.1 43. | 8 | 2500 2600 | | 1943 | Ft. Ibs C.O.A.L. |
| Accuracy Lo | oad Va ad RE | rget 22 let Calit | 35.1 43.1 Der Wei | 8 | 2500 2600 ype | | 1943 | |
| Accuracy Lo | oad Va ad RE Bull | rget 22 let Calil 50 .264 | 35.1 43.1 Der Wei | 8 7 ight T | 2500 2600 ype MP | | 1943 | C.O.A.L. |
| Accuracy Lo Hunting Loa | ad Va ad RE Bull | rget 22 let Calil 50 .264 | 35.1 43.7 ber Wei 4" 160 | 8 7 i ght T)gr. S | 2500 2600 ype MP | | 1943 | C.O.A.L. |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 | ad Va ad RE Bull | rget 22 et Calif 50 .264 2200 | 35.1 43.1 her Wei 1" 160 2300 37.3 36.8 | 8 7 0gr. S 2400 39.5 | 2500 2600 ype MP 2500 | | 1943 | C.O.A.L. |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 A 3100 | ad Va ad RE Bull | rget 22 let Calil: 50 .264 2200 35.1 | 35.1 43.1 ber Wei 4" 160 2300 37.3 36.8 40.6 | 8 7)gr. S 2400 | 2500 2600 ype MP 2500 | | 1943 | C.O.A.L. |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 A 3100 RE 22 | ad Va ad RE Bull | rget 22 et Calili 50 -264 2200 35.1 34.8 38.3 36.5 | 35.1 43.1 ber Wei 4" 160 2300 37.3 36.8 40.6 38.5 | 8 7 0gr. S 2400 39.5 42.9 40.5 | 2500 2600 ype MP 2500 | | 1943 | C.O.A.L. |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 A 3100 RE 22 H1000 | oad Va ad RE Bull #17 Velocity > | rget 22- let Calili 50 .264 2200 35.1 34.8 38.3 36.5 38.7 | 35: 43. ber Wei 4" 160 2300 37.3 36.8 40.6 38.5 41.5 | 8 7 9gr. S 2400 39.5 42.9 40.5 44.3 | 2500 2600 ype MP 2500 41.7 | | 1943 | C.O.A.L. |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 A 3100 RE 22 | oad Va ad RE Bull #17 Velocity > | rget 22 et Calili 50 -264 2200 35.1 34.8 38.3 36.5 | 35.1 43.1 ber Wei 4" 160 2300 37.3 36.8 40.6 38.5 | 8 7 0gr. S 2400 39.5 42.9 40.5 | 2500 2600 ype MP 2500 41.7 | | 1943 | C.O.A.L. |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 A 3100 RE 22 H1000 | bs | rget 22- let Calili 50 .264 2200 35.1 34.8 38.3 36.5 38.7 | 35: 43. ber Wei 4" 160 2300 37.3 36.8 40.6 38.5 41.5 | 8 7 9 ght T 2400 39.5 42.9 40.5 44.3 2046 | 2500 2600 ype MP 2500 41.7 | | 1943 | C.O.A.L. 3.062" |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 A 3100 RE 22 H1000 Energy Ft. I | bs bad bad bad bad bad bad bad bad | rget 22 et Calil: 50 .264 2200 35.1 34.8 38.3 36.5 38.7 1719 | 35:1 43. ber Wei 4" 160 2300 37.3 36.8 40.6 38.5 41.5 1879 | 8 7 9gr. S 2400 39.5 42.9 40.5 44.3 2046 ins | 2500 2600 ype MP 2500 41.7 2220 | / fps | 1943 2101 | C.O.A.L. 3.062" |
| Accuracy Lo Hunting Loa Powder V A 4350 H4350 A 3100 RE 22 H1000 Energy Ft. I Special Loa | bs bs bad Ad Velocity > | rget 22 let Calili 50 .264 2200 35.1 34.8 38.3 36.5 38.7 1719 | 35: 43. 43. 43. 43. 43. 43. 43. 43. 43. 40. 40. 40. 40. 5 41. 5 1879 Gra | 8 7 9gr. S 2400 39.5 42.9 40.5 44.3 2046 ins 6 | 2500 2600 WP 2500 41.7 2220 Velocity | fps | 1943 2101 Energy | C.O.A.L. 3.062" |

