



*A 1:9" or faster twist is recommended for the 175-grain TSX.

*SAAMI specifies a maximum overall length (COAL) for this cartridge at 2.800"; Barnes load data was developed at this COAL This cartridge may be loaded to a slightly longer length if your rifle's magazine and throat are long enough to accommodate the extra length.

*If loading to 2.800" COAL, lightly crimp case mouth so it contacts the bullet ogive.

◆ Indicates most accurate load

.284 Winchester

| | | | |
|------------------------------|---------------------------------|-------------|-------|
| Bullet Weight: 120 gr | Case Trim Length: 2.160" | S.D. | 0.213 |
| Bullet Style: TSX BT | Primer: Fed GM210M | B.C. | 0.349 |
| COAL: 2.800" | Barrel Length: 24" | | |
| Case: W-W | Twist Rate: 1:10" | | |

| Powder | Minimum | | Maximum | | |
|----------|-----------------|----------------|-----------------|----------------|------------------|
| | Charge (grains) | Velocity (fps) | Charge (grains) | Velocity (fps) | Load Density (%) |
| IMR 4895 | 47.5 | 2896 | 50.0 | 3075 | 91 |
| Varget | 48.0 | 2919 | 51.0 | 3111 | 92 |
| IMR 4064 | 48.0 | 2922 | 50.5 | 3102 | 96 |
| IMR 4320 | 48.0 | 2858 | 51.0 | 3042 | 90 |
| AA 2700 | 54.5 | 2949 | 58.0 | 3132 | 96 |
| Big Game | 52.5 | 2942 | 57.0 | 3157 | 100 |
| RL 15 | 47.5 | 2894 | 50.5 | 3111 | 92 |
| H380 | 51.0 | 2883 | 55.5 | 3107 | 94 |
| Win 760 | 52.5 | 2943 | 56.5 | 3145 | 93 |
| ◆ H414 | 53.0 | 2961 | 57.0 | 3165 | 94 |

| | | | |
|---|---------------------------------|-------------|-------|
| Bullet Weight: 140 gr | Case Trim Length: 2.160" | S.D. | 0.248 |
| Bullet Style: Banded Spitzer Solid | Primer: Fed GM210M | B.C. | 0.464 |
| COAL: 2.800" | Barrel Length: 24" | | |
| Case: W-W | Twist Rate: 1:10" | | |

| | | | |
|------------------------------|---------------------------------|-------------|-------|
| Bullet Weight: 140 gr | Case Trim Length: 2.160" | S.D. | 0.248 |
| Bullet Style: TSX BT | Primer: Fed GM210M | B.C. | 0.394 |
| COAL: 2.800" | Barrel Length: 24" | | |
| Case: W-W | Twist Rate: 1:10" | | |

| | | | |
|------------------------------|---------------------------------|-------------|-------|
| Bullet Weight: 140 gr | Case Trim Length: 2.160" | S.D. | 0.248 |
| Bullet Style: MRX BT | Primer: Fed GM210M | B.C. | 0.406 |
| COAL: 2.800" | Barrel Length: 24" | | |
| Case: W-W | Twist Rate: 1:10" | | |

| Powder | Minimum | | Maximum | | |
|----------|-----------------|----------------|-----------------|----------------|------------------|
| | Charge (grains) | Velocity (fps) | Charge (grains) | Velocity (fps) | Load Density (%) |
| IMR 4895 | 44.5 | 2601 | 48.0 | 2820 | 91 |
| Varget | 45.0 | 2649 | 48.0 | 2815 | 91 |
| IMR 4064 | 45.0 | 2639 | 48.5 | 2827 | 96 |
| IMR 4320 | 46.0 | 2608 | 49.0 | 2797 | 90 |
| AA 2700 | 51.5 | 2678 | 56.0 | 2885 | 97 |
| Big Game | 49.5 | 2653 | 55.0 | 2899 | 101 |
| RL 15 | 43.5 | 2588 | 48.5 | 2826 | 92 |
| H380 | 49.5 | 2658 | 53.0 | 2851 | 94 |
| Win 760 | 50.0 | 2716 | 54.0 | 2894 | 93 |
| ◆ H414 | 50.0 | 2702 | 54.0 | 2889 | 93 |

.284 Winchester

Bullet Weight: 150 gr
Bullet Style: TSX BT
COAL: 2.800"
Case: W-W

Case Trim Length: 2.160"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:10"

S.D. 0.266
B.C. 0.408

| Powder | Minimum | | Maximum | | |
|-----------|-----------------|----------------|-----------------|----------------|------------------|
| | Charge (grains) | Velocity (fps) | Charge (grains) | Velocity (fps) | Load Density (%) |
| Varget | 42.5 | 2471 | 46.5 | 2668 | 90 |
| IMR 4064 | 43.0 | 2487 | 46.5 | 2675 | 94 |
| IMR 4320 | 44.0 | 2451 | 47.5 | 2674 | 90 |
| ♦ AA 2700 | 49.0 | 2534 | 53.0 | 2722 | 94 |
| Big Game | 47.0 | 2492 | 53.0 | 2752 | 99 |
| RL 15 | 42.0 | 2453 | 47.0 | 2702 | 91 |
| H380 | 47.5 | 2545 | 51.0 | 2720 | 93 |
| Win 760 | 48.0 | 2568 | 52.5 | 2770 | 92 |
| H414 | 48.0 | 2556 | 52.5 | 2758 | 92 |
| H4350 | 48.5 | 2557 | 52.5 | 2768 | 100 |

Bullet Weight: 160 gr
Bullet Style: TSX FB
COAL: 2.800"
Case: W-W

Case Trim Length: 2.160"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:10"

S.D. 0.283
B.C. 0.392

Bullet Weight: 160 gr
Bullet Style: MRX BT
COAL: 2.800"
Case: W-W

Case Trim Length: 2.160"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:10"

S.D. 0.283
B.C. 0.439

| Powder | Minimum | | Maximum | | |
|------------|-----------------|----------------|-----------------|----------------|------------------|
| | Charge (grains) | Velocity (fps) | Charge (grains) | Velocity (fps) | Load Density (%) |
| IMR 4064 | 41.0 | 2340 | 44.0 | 2500 | 91 |
| IMR 4320 | 42.0 | 2307 | 46.0 | 2507 | 89 |
| AA 2700 | 49.0 | 2389 | 52.5 | 2593 | 95 |
| ♦ Big Game | 45.0 | 2324 | 51.0 | 2587 | 98 |
| RL 15 | 40.5 | 2273 | 45.0 | 2491 | 89 |
| H380 | 45.0 | 2349 | 49.0 | 2550 | 91 |
| Win 760 | 46.0 | 2341 | 51.0 | 2613 | 91 |
| H414 | 45.0 | 2371 | 50.0 | 2608 | 90 |
| H4350 | 46.0 | 2431 | 51.0 | 2623 | 99 |
| Hunter | 51.5 | 2464 | 56.0 | 2697 | 103 |

Bullet Weight: 175 gr
Bullet Style: TSX FB
COAL: 2.800"
Case: W-W

Case Trim Length: 2.160"
Primer: Fed GM210M
Barrel Length: 24"
Twist Rate: 1:10"

S.D. 0.310
B.C. 0.417

| Powder | Minimum | | Maximum | | |
|------------|-----------------|----------------|-----------------|----------------|------------------|
| | Charge (grains) | Velocity (fps) | Charge (grains) | Velocity (fps) | Load Density (%) |
| Big Game | 44.0 | 2226 | 49.0 | 2453 | 97 |
| RL 15 | 39.0 | 2150 | 43.5 | 2348 | 89 |
| H380 | 42.0 | 2172 | 47.5 | 2430 | 91 |
| Win 760 | 43.0 | 2267 | 49.5 | 2490 | 92 |
| H414 | 43.0 | 2276 | 48.0 | 2469 | 89 |
| IMR 4350 | 46.0 | 2274 | 50.0 | 2474 | 104 |
| H4350 | 43.0 | 2202 | 47.5 | 2410 | 95 |
| Hunter | 49.0 | 2322 | 52.5 | 2499 | 100 |
| ♦ IMR 4831 | 47.0 | 2276 | 50.5 | 2454 | 105 |
| H4831SC | 48.5 | 2241 | 52.0 | 2404 | 104 |