



LOADING DATA for 6mm MAX®

Loads listed below are maximum loads. Initial loading charges should be reduced by 10% and worked up to achieve the desired velocity, not to exceed the maximum velocity stated below for a given bullet-powder combination.

- Never exceed Max Load for Designated Powder
- NEVER MIX ANY TWO POWDERS REGARDLESS OF TYPE, BRAND, OR SOURCE.

WARNING

The information displayed on this site, including reloading and ballistics data, was derived from testing at the Energetic Materials Research and Testing Center in their Ballistics Science Laboratory, Socorro, NM. Testing was performed with a range of bullet weights and propellant with the 6 mm MAX™ cartridge in order to establish SAAMI (Sporting Arms Ammunition Manufacturers Institute) performance standards. This information and data may vary considerably depending on many factors, including the components used, component assembly, the type of firearm and firearm's condition used, reloading techniques, and safety precautions used.

Buyers and users assume all risk, responsibility and liability whatsoever for any and all injuries (including death), losses or damages to persons or property (including consequential damages), arising from the use of any product or data, whether or not occasioned by seller's negligence or

based on strict liability or principles of indemnity or contribution. BC Precision Ballistics, LLC neither assumes nor authorizes any person to assume for it any liability in connection with the use of any product or data.

- **NEVER MIX ANY TWO POWDERS REGARDLESS OF TYPE, BRAND, OR SOURCE.**
- **NEVER SUBSTITUTE ANY SMOKELESS POWDER FOR BLACK POWDER OR ITS SUBSTITUTE.**

Carelessness or negligence can make reloading your own ammunition hazardous. The essence of reloading safety is proper handling and storage of primers and powder. As important is strict following of the instructions given by the manufacturers of the reloading equipment as well as the reloading components.

- **USE THIS DATA WITH THE COMPONENTS SPECIFIED IN THE RELOAD DATA TABLES.**
- **REDUCE THE RIFLE CHARGE WEIGHTS BY 10% TO ESTABLISH A STARTING LOAD.**
- **DO NOT EXCEED THE LOADS DISPLAYED ON THE SITE.**

SAFETY RULES TO FOLLOW DURING RELOADING

- Reload only when you can give it your undivided attention. Do not reload, when fatigued or ill. Develop your own reloading routine to avoid mistakes. Avoid haste, load at a leisurely place and keep in mind that absolutely no reloading under the influence of alcohol or drugs!
- Always wear proper eye protection.
- Store powder and primers out of reach of children and away from heat and open fire. Follow the manufacturer's instructions on your powder canister. Never smoke during a reloading session!
- Keep no more powder than needed available. Immediately return the unused powder to its original factory container to preserve its identity and usable life time. Do not leave powder stored in your powder measure dispenser.
- Do not use any powder unless its identity is positively known. Scrap all unidentified powders according to the manufacturer's instructions on your powder canister. Keep in mind that the trial-and-error method may lead to serious injury!
- Do not store primers in bulk! Bulk primers will very likely mass detonate. The blast of a few hundred primers corresponds to a hand grenade in a room. Do not force primers in any

circumstances. Take special care when filling and handling auto primer feed tubes. Keep primers in their original factory packing until used. Return unused primers to their original packing.

- Do not use primers if their identity is lost. Discard them according to the manufacturer's instructions.
- Start loading with the starting load according to the loading data. If there is no indication of the starting load, use a 10 % lower charge than the listed maximum load. Increase the charge using small steps watching for overpressure signs from the primer and the case head at each step. If you detect overpressures immediately stop shooting and reduce the charge. Immediately disassemble the defective cartridges. NEVER EXCEED THE MAXIMUM LOADS!
- Check visually the powder level in the cases so you are absolutely sure that you have no double powder charge. When a double powder charge is fired it may result in a gun damage, personal injury, even death.
- If you change the lot of any component or if you change any of the components of your reload, you must develop your load from the starting load again. A different component as well as a component from a different manufacturing lot may cause changes in cartridge pressure.
- You must absolutely follow the given cartridge overall lengths (C.O.L.) according to the reloading tables. The change in the bullet seating depth has a significant influence on the cartridge pressure.
- Never reduce loads under the listed starting load.
- Keep your reloading bench in good order. Clean up spilled powder and primers promptly and completely. Remember that the reloading bench is not a temporary store for other tools, used car spare parts etc.
- Use your reloading equipment according to the manufacturer's recommendations. Study the instructions carefully and don't hesitate to ask, if you don't understand everything.
- During reloading procedures also expose you to lead. Wash hands thoroughly before and after reloading. Also, do not eat or drink while you are reloading.
- Be safe!

THE INDIVIDUAL ACCESSING THIS SITE ASSUMES THE RISK OF SAFE LOADING PRACTICES.

FAILURE TO DO SO COULD RESULT IN SEVERE PERSONAL INJURY (OR DEATH) AND/OR PROPERTY DAMAGE.

<u>Test Info</u>					
<u>Barrel</u>	<u>Twist</u>	<u>Cartridge</u>	<u>Trim Length</u>	<u>COL</u>	<u>Primer</u>
<u>Bartlein 24"</u>	<u>1/8</u>	<u>6mmMAX</u>	<u>1.715</u>	<u>2.30"</u>	<u>CCI #41</u>

<u>55 gr Nosler</u>				
<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>32.6</u>	<u>3598</u>	<u>50371</u>	
<u>H322</u>	<u>30.7</u>	<u>3553</u>	<u>53000</u>	
<u>IMR 4198</u>	<u>26.3</u>	<u>3493</u>	<u>53000</u>	
<u>RL-10X</u>	<u>28.8</u>	<u>3481</u>	<u>51163</u>	
<u>ARComp</u>	<u>30.5</u>	<u>3454</u>	<u>43428</u>	<u>Compressed Load</u>
<u>W748</u>	<u>32.5</u>	<u>3331</u>	<u>42071</u>	

<u>58 gr Hornady VMAX</u>				
<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>32.6</u>	<u>3561</u>	<u>52500</u>	
<u>ARComp</u>	<u>30.5</u>	<u>3491</u>	<u>52178</u>	<u>Compressed Load</u>
<u>RL-10X</u>	<u>28.8</u>	<u>3442</u>	<u>53728</u>	
<u>VIHT N133</u>	<u>28.7</u>	<u>3413</u>	<u>53000</u>	
<u>W748</u>	<u>32.5</u>	<u>3363</u>	<u>48054</u>	
<u>8208 XBR</u>	<u>29.6</u>	<u>3273</u>	<u>53000</u>	

62 gr Barnes Varmint Grenade

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
TAC	<u>31.0</u>	<u>3404</u>	<u>53494</u>	

65 gr Hornady VMAX

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>33.8</u>	<u>3385</u>	<u>50987</u>	
<u>ARComp</u>	<u>29.9</u>	<u>3312</u>	<u>53500</u>	<u>Compressed Load</u>
<u>H4895</u>	<u>30.0</u>	<u>3306</u>	<u>52836</u>	
<u>H322</u>	<u>29.0</u>	<u>3287</u>	<u>53000</u>	
<u>W748</u>	<u>31.7</u>	<u>3272</u>	<u>53000</u>	
<u>8208 XBR</u>	<u>29.5</u>	<u>3255</u>	<u>51946</u>	
<u>VITH N133</u>	<u>28.3</u>	<u>3254</u>	<u>54192</u>	
<u>IMR 4198</u>	<u>24.8</u>	<u>3212</u>	<u>53000</u>	
<u>RL-10X</u>	<u>26.7</u>	<u>3212</u>	<u>53000</u>	

70 gr Sierra BlitzKing

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>33.5</u>	<u>3338</u>	<u>53079</u>	
<u>H4895</u>	<u>29.7</u>	<u>3233</u>	<u>53328</u>	
<u>BLC2</u>	<u>32.1</u>	<u>3231</u>	<u>53000</u>	
<u>ARComp</u>	<u>29.3</u>	<u>3211</u>	<u>51819</u>	
<u>W748</u>	<u>31.3</u>	<u>3211</u>	<u>53000</u>	
<u>H322</u>	<u>28.5</u>	<u>3205</u>	<u>54146</u>	
<u>8208 XBR</u>	<u>29</u>	<u>3175</u>	<u>52638</u>	

70 gr Sierra BlitzKing (Continued)

<u>RL-15</u>	<u>29.7</u>	<u>3161</u>	<u>53000</u>	
<u>VIHT N133</u>	<u>27.6</u>	<u>3156</u>	<u>53779</u>	
<u>VIHT N135</u>	<u>27.9</u>	<u>3140</u>	<u>50379</u>	<u>Slightly compressed load</u>
<u>RL-10X</u>	<u>26</u>	<u>3124</u>	<u>53388</u>	

75 gr Hornady VMAX

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>31.7</u>	<u>3170</u>	<u>53000</u>	
<u>H4895</u>	<u>29.3</u>	<u>3141</u>	<u>54040</u>	
<u>ARComp</u>	<u>27.8</u>	<u>3075</u>	<u>53244</u>	
<u>VIHT N135</u>	<u>27.5</u>	<u>3000</u>	<u>53000</u>	
<u>H322</u>	<u>26.7</u>	<u>2985</u>	<u>53000</u>	

77 gr Cutting Edge MTH (Solid Copper HPBT)

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>30.8</u>	<u>3110</u>	<u>53000</u>	
<u>TAC</u>	<u>28.7</u>	<u>3100</u>	<u>53500</u>	
<u>BLC2</u>	<u>29.7</u>	<u>3031</u>	<u>53271</u>	
<u>RL-15</u>	<u>29.1</u>	<u>3010</u>	<u>53000</u>	
<u>H4895</u>	<u>28.0</u>	<u>3008</u>	<u>53119</u>	
<u>8208 XBR</u>	<u>27.4</u>	<u>2983</u>	<u>53054</u>	
<u>ARComp</u>	<u>25.3</u>	<u>2902</u>	<u>53544</u>	
<u>VIHT N133</u>	<u>25.3</u>	<u>2881</u>	<u>52188</u>	

80 gr Speer Spitzer

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>W748</u>	<u>30.7</u>	<u>3023</u>	<u>52471</u>	
<u>H4895</u>	<u>28.3</u>	<u>2996</u>	<u>52600</u>	
<u>H335</u>	<u>28</u>	<u>2910</u>	<u>50546</u>	

80 gr Hornady CX (Solid Copper)

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>29.5</u>	<u>2945</u>	<u>53000</u>	
<u>BLC2</u>	<u>29.8</u>	<u>2852</u>	<u>53038</u>	
<u>RL-15</u>	<u>28.8</u>	<u>2845</u>	<u>52000</u>	
<u>H4895</u>	<u>27.3</u>	<u>2800</u>	<u>53000</u>	

80 gr Hornady ELD-VT

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>29.4</u>	<u>3097</u>	<u>52300</u>	

85 gr Hornady Interbond

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>28.0</u>	<u>2902</u>	<u>51269</u>	

85 gr Sierra HPBT #1530

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>27.9</u>	<u>2922</u>	<u>52592</u>	

85 gr Speer SPBT

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>28.6</u>	<u>3009</u>	<u>53500</u>	
<u>H4895</u>	<u>28.0</u>	<u>2950</u>	<u>53100</u>	
<u>BLC2</u>	<u>30.2</u>	<u>2937</u>	<u>53421</u>	
<u>W748</u>	<u>29.3</u>	<u>2919</u>	<u>52846</u>	
<u>RL-15</u>	<u>28.3</u>	<u>2899</u>	<u>53000</u>	
<u>8208 XBR</u>	<u>27.1</u>	<u>2869</u>	<u>53000</u>	
<u>VIHT N135</u>	<u>26.8</u>	<u>2844</u>	<u>53000</u>	

87 gr Berger VLD Hunting

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>30.9</u>	<u>3009</u>	<u>53000</u>	
<u>H4895</u>	<u>27.9</u>	<u>2896</u>	<u>52836</u>	
<u>H335</u>	<u>27.3</u>	<u>2854</u>	<u>53000</u>	

87 gr Hornady VMAX

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>27</u>	<u>2831</u>	<u>53000</u>	

88 gr Cutting Edge MTH (Solid Copper HPBT)

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>26.1</u>	<u>2733</u>	<u>51036</u>	
<u>VIHT 5450</u>	<u>27.6</u>	<u>2688</u>	<u>53286</u>	

90 gr Berger BT Target

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>27.2</u>	<u>2826</u>	<u>53036</u>	

90 gr Hornady ELD-X

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>30.5</u>	<u>2944</u>	<u>53000</u>	
<u>BLC2</u>	<u>29.8</u>	<u>2861</u>	<u>53462</u>	
<u>TAC</u>	<u>27.7</u>	<u>2858</u>	<u>51000</u>	
<u>W748</u>	<u>29.0</u>	<u>2843</u>	<u>53479</u>	
<u>RL-15</u>	<u>28.1</u>	<u>2834</u>	<u>53000</u>	
<u>H4895</u>	<u>27.0</u>	<u>2819</u>	<u>53536</u>	
<u>8208 XBR</u>	<u>26.4</u>	<u>2776</u>	<u>53000</u>	
<u>H335</u>	<u>26.3</u>	<u>2754</u>	<u>53000</u>	

90 gr Lapua Scenar-L

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>28.0</u>	<u>2915</u>	<u>55796</u>	<u>Match Load</u>
<u>H4895</u>	<u>26.6</u>	<u>2809</u>	<u>53000</u>	
<u>VIHT N135</u>	<u>26.8</u>	<u>2763</u>	<u>53000</u>	
<u>VIHT N540</u>	<u>28.6</u>	<u>2757</u>	<u>52711</u>	

90 gr Nosler Accubond

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>27.2</u>	<u>2821</u>	<u>52644</u>	

90 gr Speer Hot Cor Spitzer

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>27.5</u>	<u>2814</u>	<u>52744</u>	

95 gr Berger Classic Hunter

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>26.8</u>	<u>2758</u>	<u>53336</u>	

95 gr Hornady SST

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>BLC2</u>	<u>29.4</u>	<u>2749</u>	<u>53000</u>	
<u>W748</u>	<u>29.0</u>	<u>2727</u>	<u>53454</u>	
<u>RL-15</u>	<u>27.8</u>	<u>2708</u>	<u>53404</u>	
<u>H4895</u>	<u>26.8</u>	<u>2684</u>	<u>52878</u>	
<u>8208 XBR</u>	<u>26.1</u>	<u>2639</u>	<u>53000</u>	
<u>VIHT N135</u>	<u>26.3</u>	<u>2619</u>	<u>53000</u>	

95 gr Nosler BT Spitzer

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>30.4</u>	<u>2844</u>	<u>53000</u>	
<u>H4895</u>	<u>27.3</u>	<u>2749</u>	<u>53477</u>	<u>Compressed Load</u>
<u>VIHT N540</u>	<u>28.4</u>	<u>2652</u>	<u>51361</u>	

100 gr Speer BT

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>H4895</u>	<u>26.1</u>	<u>2660</u>	<u>53969</u>	

100 gr Hornady Interlock

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>29.5</u>	<u>2750</u>	<u>52836</u>	
<u>W748</u>	<u>28.8</u>	<u>2718</u>	<u>53388</u>	
<u>RL-15</u>	<u>27.6</u>	<u>2678</u>	<u>53000</u>	
<u>RL-15.5 TS</u>	<u>28.7</u>	<u>2638</u>	<u>50098</u>	<u>Compressed Load</u>
<u>H4895</u>	<u>26.1</u>	<u>2638</u>	<u>53000</u>	

100 gr Sierra SBT

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>CFE223</u>	<u>29.5</u>	<u>2762</u>	<u>52179</u>	
<u>BLC2</u>	<u>29.2</u>	<u>2718</u>	<u>53000</u>	
<u>RL-15.5 TS</u>	<u>28.6</u>	<u>2688</u>	<u>53000</u>	<u>Compressed Load</u>
<u>H4895</u>	<u>26.1</u>	<u>2652</u>	<u>52153</u>	
<u>8208 XBR</u>	<u>26.0</u>	<u>2616</u>	<u>52654</u>	
<u>VIHT N135</u>	<u>25.0</u>	<u>2602</u>	<u>52896</u>	
<u>VIHT N540</u>	<u>27.2</u>	<u>2599</u>	<u>52061</u>	

103 gr Hornady ELDX

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>27.3</u>	<u>2700</u>	<u>52454</u>	

105 gr Hornady BTHP

<u>Powder</u>	<u>Max Load (gr)</u>	<u>Velocity (fps)</u>	<u>Pressure (psi)</u>	<u>Notes</u>
<u>TAC</u>	<u>27.1</u>	<u>2712</u>	<u>54500</u>	