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.

Test Info

Barrel	Twist	Cartridge	Trim Length	COL	Primer
Bartlein 24"	1/8	6mmMAX®	1.715	2.30"	CCI #41

55 gr Nosler

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

58 gr Hornady VMAX

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

62 gr Barnes Varmint Grenade

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
TAC	31.0	3404	53494	

65 gr Hornady VMAX

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

70 gr Sierra BlitzKing

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
CFE223	33.5	3338	53079	
H4895	29.7	3233	53328	
BLC2	32.1	3231	53000	
ARComp	29.3	3211	51819	
W748	31.3	3211	53000	
H322	28.5	3205	54146	
8208 XBR	29.0	3175	52638	

70 gr Sierra BlitzKing (Continued)				
RL-15	29.7	3161	53000	
VIHT N133	27.6	3156	53779	
VIHT N135	27.9	3140	50379	Slightly compressed load
RL-10X	26.0	3124	53388	

75 gr Hornady VMAX

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

77 gr Cutting Edge MTH (Solid Copper HPBT)

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

80 gr Speer Spitzer

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
W748	30.7	3023	52471	
H4895	28.3	2996	52600	
H335	28.0	2910	50546	

80 gr Hornady CX (Solid Copper)

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

80 gr Hornady ELD-VT

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
TAC	29.4	3097	52300	

85 gr Hornady Interbond

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
H4895	28.0	2902	51269	

85 gr Sierra HPBT #1530

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
H4895	27.9	2922	52592	

85 gr Speer SPBT

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

87 gr Berger VLD Hunting

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

87 gr Hornady VMAX

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
H4895	27.0	2831	53000	

88 gr Cutting Edge MTH (Solid Copper HPBT)

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

90 gr Berger BT Target

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
H4895	27.2	2826	53036	

90 gr Lapua Scenar-L

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

90 gr Nosler Accubond

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
TAC	27.2	2821	52644	

90 gr Speer Hot-Cor Spitzer

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
H4895	27.5	2814	52744	

95 gr Berger Classic Hunter

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
H4895	26.8	2758	53336	

95 gr Hornady SST

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

95 gr Nosler BT Spitzer

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

100 gr Speer BT

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
H4895	26.1	2660	53969	

100 gr Hornady Interlock

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

100 gr Sierra SBT

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

103 gr Hornady ELDX

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
TAC	27.3	2700	52454	

105 gr Hornady BTHP

Powder	Max Load (gr)	Velocity (fps)	Pressure (psi)	Notes
TAC	27.1	2712	54500	