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.338 LAPUA MAGNUM

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GLOSSARY OF TERMS

COMPANY ABBREVIATIONS

AK	Alaska Bullet Company
ALEX	Alexander Industries Inc.
BADMAN	Badman Bullets
BARNES	Barnes Bullets, LLC.
BME	Belt Mountain Enterprises
BERGER	Berger Bullets
BERRY	Berry's Manufacturing Inc.
CP	Cast Performance Bullet Company
FED	Federal Cartridge Company
FNH	Fabrique Nationale, Herstal
GSCB	GS Custom Bullets
HAWK	Hawk Inc.

HOY	Hornady Manufacturing Company
IMI	Israel Military Industry Ltd.
LAPUA	Lapua Oy
LC	Laser Cast, Oregon Trail Bullet Company
LHG	Lehigh Defense, LLC
LYMAN	Lyman Products Corp.
MCB	Montana Cast Bullets
MIL	Military
MSS	Mid-South Shooter's Supply
MTB	Mount Baldy Bullet Company
NORMA	Norma Precision AB
NOSLER	Nosler Inc.

PENN	Penn Bullets
RAIN	Rainier Ballistics LLC
REM	Remington Arms Company LLC
SF	SinterFire Inc.
SIERRA	Sierra Bullets
SPEER	Speer Bullets
STAR	Starline Brass Inc.
SWIFT	Swift Bullet Company
TS	True Shot, Oregon Trail Bullet Company
WBY	Weatherby Inc.
WIN	Winchester
WDL	Woodleigh Bullets

PRIMER ABBREVIATIONS

SP	Small Pistol
SPM	Small Pistol Magnum
LP	Large Pistol
LPM	Large Pistol Magnum

SR	Small Rifle
SRM	Small Rifle Magnum
LR	Large Rifle
LRM	Large Rifle Magnum

OTHER ABBREVIATIONS

CIP	Commission Internationale Permanente
CUP	Copper Units of Pressure
SAAMI	Sporting Arms and Manufacturer's Institute

BULLET ABBREVIATIONS

A-BOND	Accubond
A-MAX	A-Max Match Bullet (Hornady)
AF	A Frame
B-L	Blood Line
B-TIP	Ballistic Tip (Nosler)
BAND-S	Banded Solid
BB	Bevel Base
BK	BlitzKing
B-PIN	Bowling Pin
BST	Ballistic Silver Tip, Combined Technology
BSTR	Buster (Barnes)
BT-FMJ	Boat Tail - Full Metal Jacket with Cannelure
BT-MB	Boat Tail - Match Burner
BTHP	Boat Tail Hollow Point
BTHP-M	Boat Tail Hollow Point - Match
BTLF	Ballistic Tip Lead-Free
BTSP	Boat Tail Spire Point
BT	Boat Tail Target
BTTLR	Boat Tail Target Long Range
BTY	Boat Tail Varmint
CT	Combined Technologies, Olin/Nosler
DBB	Double Beveled Base
E-TIP	Polymer Tip, Lead-Free
FB	Flat Base
FBT	Flat Base Target
FBV	Flat Base Varmint
FNJ	Full Metal Jacket
FNJ-BT	Full Metal Jacket Boat Tail
FNJ-CT	Full Metal Jacket - Combat/Target
FN	Flat Nose
FN-O	Flat Nose Original (Barnes)
FN-SP	Flat Nose Spire Point
FP	Flat Point
FPJ	Full Profile Jacket
FS	Fail Safe, Combined Technology
FTX	Flexible Tip Technology
GC	Gas Check
GDHP	Gold Dot Hollow Point
GK	GameKing
GS	Golden Saber
GSLAM	Grand Slam
HB	Hollow Base
HORNET	Bullet intended for .22 Hornet velocities
HP	Hollow Point

HP "Bee"	Hollow Point for Tube Fed Rifles
HPBT	Hollow Point Boat Tail
HPBT-CC	Hollow Point Boat Tail Custom Competition
JHC	Jacketed Hollow Cavity
JHP	Jacketed Hollow Point
JSP	Jacketed Soft Point
KSPB	Keith-Style Piston Bullet
(L)	Lead
LFNGC	Long Flat Nose Gas Check
LFNPB	Long Flat Nose Plain Base
LTX	Long Range X Bullet
M 855	US Military Enhanced Penetrator
M-HYB	Match Hybrid
M-TSP	Mag-Tip Soft Point
ML	Typical Military Ball
MK	Match King
MMF	Match Mag Feed
MPG	Multi-Purpose Green
MRX	Maximum Range X Bullet
NTP	Narrow Taper Point
(P)	Plated Bullet
PART	Partition
PH	Pro-Hunter
PLINKR	Plinker Lead-Tipped Short-Jacket
PSP CL	Pointed Soft Point Core Lock
PUNCH	Punch Bullet, BME
RHFP	Reduced Hazard Flat Point
RN	Round Nose
RNDS	Round Nose Double Strike
RNFP	Round Nose Flat Point
RNSWC	Round Nose Semi Wadcutter
RS	Radiused Shoulder
SBT	Spitzer Boat Tail (Sierra)
SBTSP	Spitzer Boat Tail Spire Point (Speer)
S-SPTZ	Semi-Spitzer
SCENAR	Match Boat Tail (Lapua)
SCIR	Scirocco
SLD	Solid
SNP	Semi Point
SP	Spire Point or Soft Point
SPHJ	Soft Point Heavy Jacket
SPSX	Spire Point Super Explosive
SPT	Spitzer (Sierra)
SPT-V	Spitzer Varmint

SP2SP	Spitzer Soft Point (Speer)
SSP	Single Shot Pistol
SSSP	Semi-Spitzer Soft Point
SST	Super Shock Tipped
SWC	Semi Wadcutter
SWCBB	Semi Wadcutter Beveled Base
TAC-TX	Tactical Tipped X-Bullet MLE
TAC-XP	Tactical X-Bullet MLE
TC	Truncated Cone
TCBB	Truncated Cone Beveled Base
T-HEAD	Thunder Head
THOTM	Tactical Hybrid Open Tip Match
TMJ-FN	Total Metal Jacket - Flat Nose
TNT-HP	Varmint Hollow Point (Speer)
TRN	Total Copper Jacket Round Nose
TSX	Triple Shock X-Bullet
TSX-BT	Triple Shock Boat Tail
TSX-FB	Triple Shock Flat Base
TTSX	Tipped Triple Shock X-Bullet
V-MAX	V-Max Varmint Bullet (Hornady)
VAR	Varmint Bullet (Berger)
VARM	Varmint
VARMG	Varmageddon
VG	Varmint Grenade
VLC	Varmint bullet with Dry Lubricant Coating
VLD	Very Low Drag
VNX	Varmint Nightmare X-treme
WBFFGC	Wide Base Flat Point Gas Check
WC	Wadcutter
WCDBB	Wadcutter Double Base Beveled
WCSGG	Wadcutter Single Grease Groove
WFNGC	Wide Flat Nose Gas Check
WFNPB	Wide Flat Nose Plain Base
WFGC	Wide Flat Point Gas Check
WLCPP	Weldcore Protected Point
WLNGC	Wide Long Nose Gas Check
WNFFGC	Wide Nose Flat Point Gas Check
WNGC	Wide Nose Gas Check
WTP	Wide Taper Point
X	X Bullet
XBT	X Boat Tail Bullet
XFB	X Flat Base Bullet
XPB	X Pistol Bullet
XTP	Extreme Terminal Performance

Save time on your next shot!



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OUR REPUTATION RIDES ON EVERY SHOT

Hornady Mfg. Co., Box 1848, Grand Island, NE 68802-1848

.338 LAPUA MAG. - HORNADY BULLETS

185 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.231
0.338"



185 gr. GMX®

B.C.: 0.420 C.O.L.: 3.565"

Item No. 33270

NOTE: USE 200 GRAIN POWDER DATA FOR LOADING THESE BULLETS

Hornady ballistics tables are available at hornady.com/ballistics

200 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.250
0.338"



200 gr. SST®

B.C.: 0.455 C.O.L.: 3.565"

Item No. 33102



200 gr. InterLock® SP-RP

B.C.: 0.361 C.O.L.: 3.565"

Item No. 3310

POWDER	VELOCITY (FPS - feet per second)						
	2700	2800	2900	3000	3100	3200	3250
H4350	80.0 gr.	82.8 gr.	85.5 gr.	88.2 gr.	91.0 gr.		
IMR 4831	83.9 gr.	85.8 gr.	87.7 gr.	89.7 gr.	91.6 gr.		
VIHT N-160	77.9 gr.	81.5 gr.	85.2 gr.	88.8 gr.	92.5 gr.		
Alliant RL-19	84.0 gr.	86.5 gr.	89.0 gr.	91.6 gr.	94.1 gr.	96.6 gr.	
Alliant RL-22	88.3 gr.	90.1 gr.	92.0 gr.	93.9 gr.	95.8 gr.	97.6 gr.	98.6 gr.
VIHT N-165	87.0 gr.	89.5 gr.	92.0 gr.	94.5 gr.	96.9 gr.		
H4831	86.1 gr.	88.9 gr.	91.7 gr.	94.4 gr.	97.2 gr.		
IMR 7828	89.1 gr.	91.4 gr.	93.6 gr.	95.9 gr.	98.1 gr.		
H1000	91.2 gr.	93.9 gr.	96.5 gr.	99.2 gr.	101.9 gr.		

Hornady ballistics tables are available at hornady.com/ballistics

INDICATES MAXIMUM LOAD-USE WITH CAUTION

.338 LAPUA MAG. - HORNADY BULLETS

285 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.356
0.338"



285 gr. BTHP Match™
B.C.: 0.700 C.O.L.: 3.625"
Item No. 3339

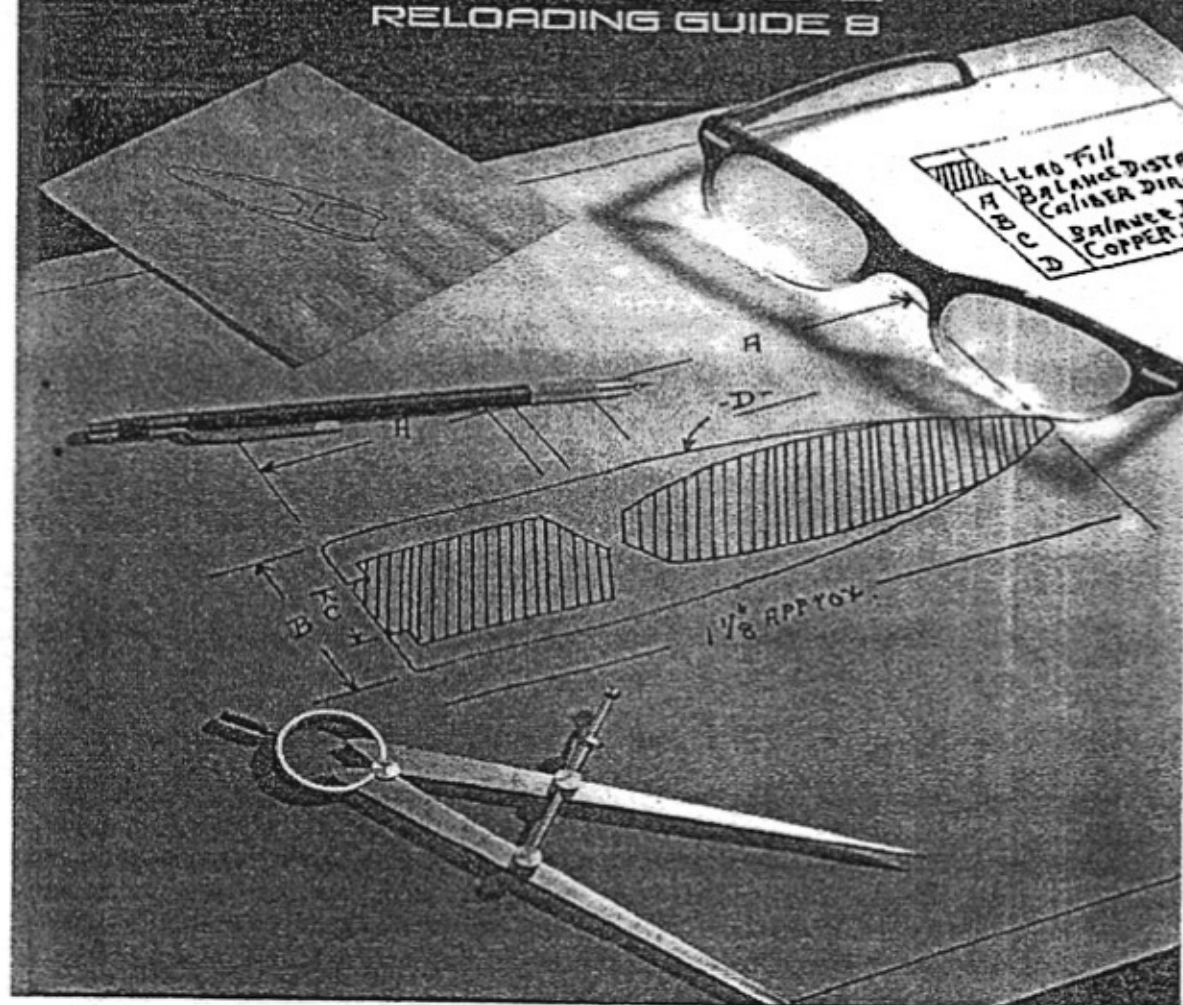
POWDER	VELOCITY (FPS - feet per second)				
	2400	2500	2600	2700	2750
Alliant RL-22	72.9 gr.	76.8 gr.	80.7 gr.	84.6 gr.	86.5 gr.
WIN Supreme 780	74.9 gr.	78.6 gr.	82.2 gr.	85.9 gr.	87.7 gr.
Alliant RL-25	77.2 gr.	80.8 gr.	84.3 gr.	87.8 gr.	89.6 gr.
H1000	77.2 gr.	80.8 gr.	84.3 gr.	87.8 gr.	89.6 gr.
RETUMBO	81.7 gr.	84.9 gr.	88.1 gr.	91.4 gr.	93.0 gr.

Hornady ballistics tables are available at hornady.com/ballistics

Super INDICATES MAXIMUM LOAD-USE WITH CAUTION

Nosler

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Nosler's new *Reloading Manual Number Eight* is the most complete volume on reloading ever. A full 800 pages with never-before-published data on Nosler Ballistic Tip and Handgun bullets, and new data on Solid Base, Partition bullets and much more.

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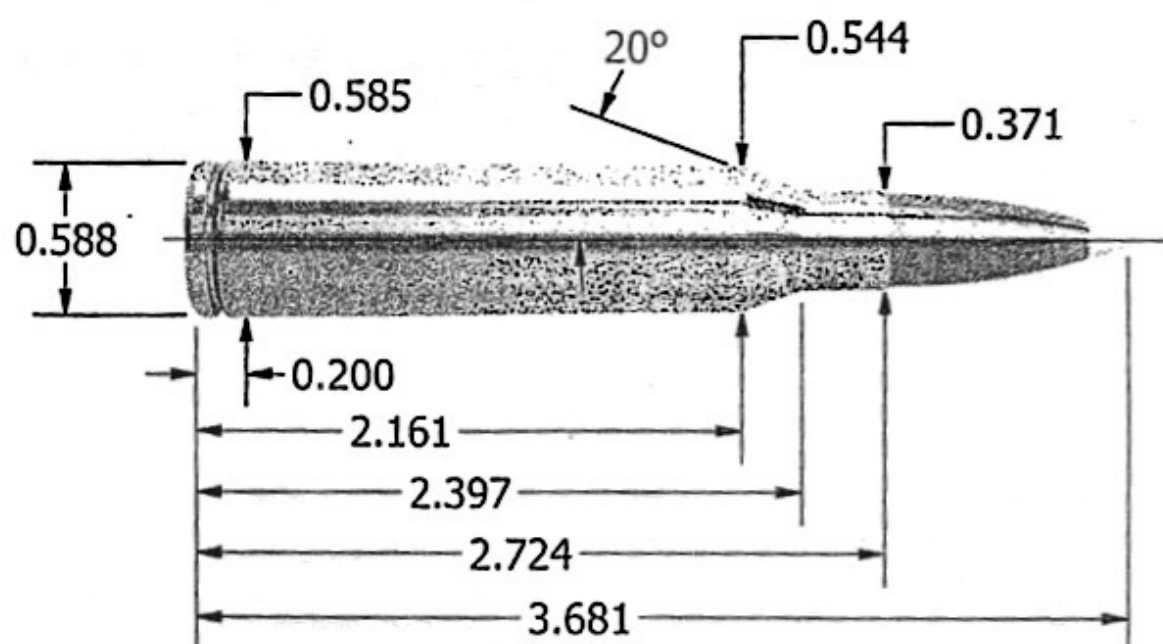
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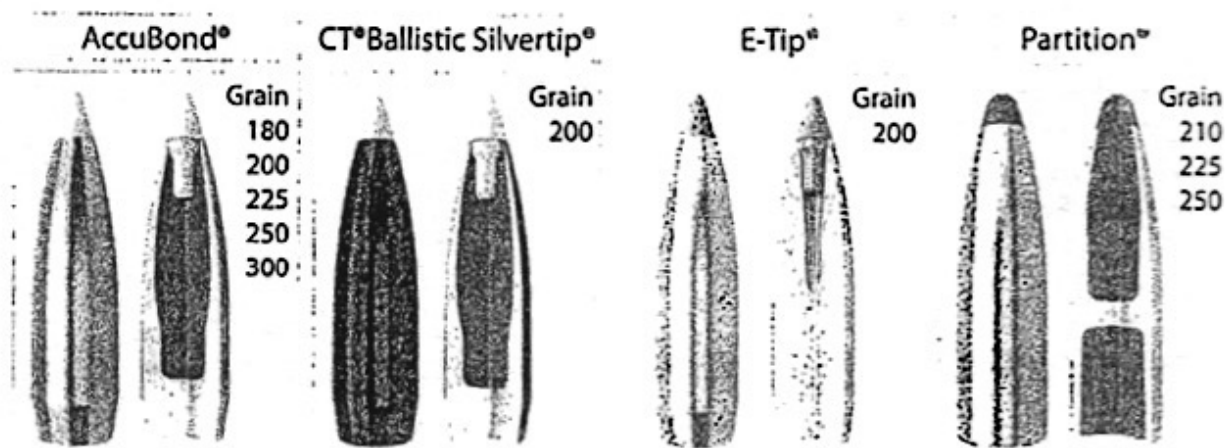
www.nosler.com

.338 LAPUA MAG. - NOSLER BULLETS



Maximum S.A.A.M.I. Overall Cartridge Length: 3.681"

BULLET CHOICES FOR THE 338 LAPUA MAGNUM



TECHNICAL INFORMATION

The 338 Lapua (8.6 x 70 mm or 8.58 x 70 mm) is a specialized, rimless, bottlenecked cartridge developed for military sniping duty. Not only is it a combat-proven round, it is increasingly used by big game hunters and civilian long-range shooting enthusiasts. The big Lapua is suitable for hunting any game animal on the planet.

.338 LAPUA MAG. - NOSLER BULLETS

338 Lapua Magnum - 200/210 grain			MAXIMUM S.A.A.M.I. O.A.C.L.	3.681"
			TESTED O.A.C.L.	B.C. S.D.
AccuBond®	200gr. Spitzer	3.580"	0.414	0.250
CT® Ballistic Silvertip®	200gr. Spitzer	3.580"	0.414	0.250
E-Tip®	200gr. Spitzer	3.580"	0.425	0.250
Due to internal construction differences, always begin with starting loads when using E-Tip® products.				
Partition®	210gr. Spitzer	3.540"	0.400	0.263
CASE TYPE:	Norma	PRIMER TYPE	Fed. 215	
CASE HOLDS:	106.0 Gr. WATER	BARREL Length/Make	26" Pac-Nor	
			BARREL Twist	1-10"
POWDER TYPE	POWDER CHG. GRS.	MUZZLE VEL. F.P.S.	LOAD DENSITY (VOLUME)	
Magnum	100.5 * MAX.	3065	96%	
	98.5	3021	94%	
	96.5	2950	92%	
H4831SC	90.0 MAX.	3114	88%	
	88.0	3091	86%	
	86.0 *	3019	85%	
IMR 4350	84.0 MAX.	3126	84%	
	82.0 *	3095	82%	
	80.0	3055	80%	
H1000	95.5 * MAX.	3128	94%	
	93.5	3098	92%	
	91.5	3035	90%	
Viht N560	88.5 MAX.	3138	93%	
	86.5	3087	91%	
	84.5 *	2999	89%	
IMR 7828	90.5 MAX.	3143	91%	
	88.5 *	3077	89%	
	86.5	2998	87%	
RL22	90.0 MAX.	3173	92%	
	88.0	3110	90%	
	86.0 *	3016	88%	
RL19 Most Accurate Powder Tested	88.0 MAX.	3182	90%	
	86.0 *	3137	88%	
	84.0	3052	86%	
MAGPRO	95.0 MAX.	3188	92%	
	93.0 *	3142	90%	
	91.0	3073	89%	

BC=Ballistic Coefficient SD=Sectional Density
 *Most Accurate Load Tested **Compressed Load

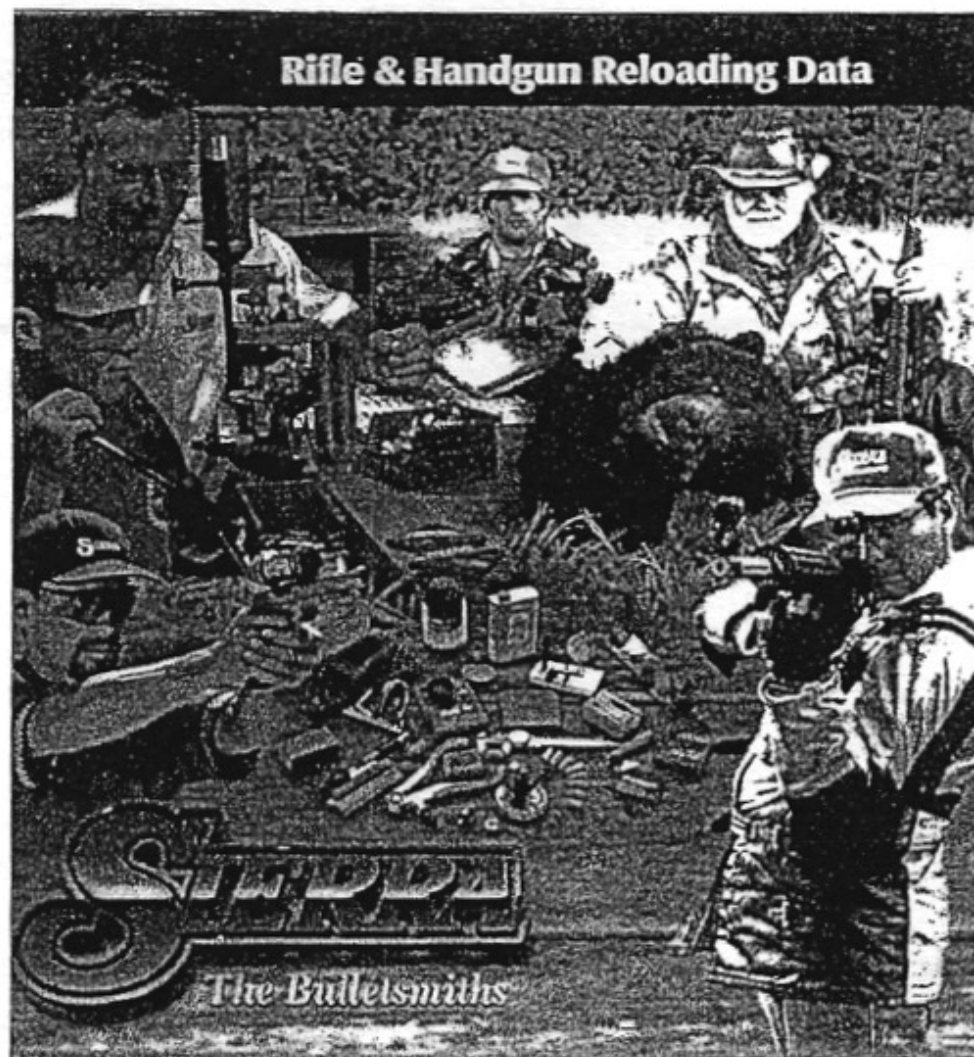
Use Maximum Loads with Caution

.338 LAPUA MAG. - NOSLER BULLETS

338 Lapua Magnum - 250 grain				MAXIMUM S.A.A.M.I. O.A.C.L.	3.681"	
				TESTED O.A.C.L.	B.C.	S.D.
AccuBond®		250gr. Spitzer		3.580"	0.575	0.313
Partition®		250gr. Spitzer		3.540"	0.473	0.313
CASE TYPE:	Norma		PRIMER TYPE		Fed. 215	
CASE HOLDS:	101.7	Gr. WATER	BARREL Length/Make		26" Pac-Nor	
			BARREL Twist		1-10"	
POWDER TYPE	POWDER CHG. GRS.		MUZZLE VEL. F.P.S.	LOAD DENSITY (VOLUME)		
Viht N165	87.0	MAX.	2873		95%	
	85.0 •		2826		93%	
	83.0		2759		91%	
H4831SC	86.5	MAX.	2877		89%	
	84.5		2836		87%	
	82.5 •		2772		85%	
H1000	94.0 •	MAX.	2898		97%	
	92.0		2864		95%	
	90.0		2803		93%	
IMR 7828	87.0	MAX.	2899		91%	
	85.0		2829		89%	
	83.0 •		2762		87%	
Viht N560 Most Accurate Powder Tested	85.0	MAX.	2902		93%	
	83.0 •		2829		91%	
	81.0		2772		88%	
MAGPRO	90.0	MAX.	2920		91%	
	88.0 •		2874		89%	
	86.0		2834		87%	
RL19	85.0	MAX.	2926		91%	
	83.0 •		2868		89%	
	81.0		2827		87%	
Retumbo	95.0 •	MAX.	2934		98%	
	93.0		2881		96%	
	91.0		2829		94%	
RL22	86.0	MAX.	2941		92%	
	84.0 •		2869		90%	
	82.0		2813		88%	

BC=Ballistic Coefficient SD=Sectional Density
 *Most Accurate Load Tested **Compressed Load

Use Maximum Loads with Caution



When You Need ALL the Facts...

The Sierra 5th Edition Reloading Manual has the information you need. Rifle and Handgun reloading information is in one complete volume, and covers its subject thoroughly. No matter what brand of bullet, powder, or primer you like to use, the Sierra manual gives you the full story.

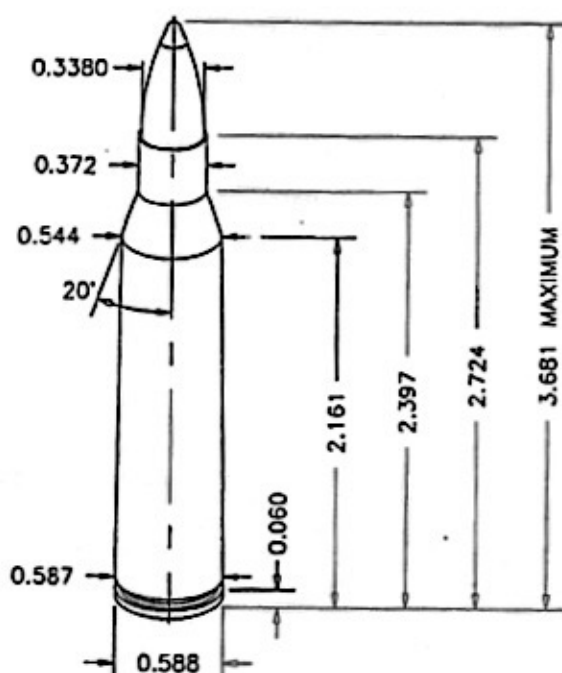
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SIERRA BULLETS

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338 Lapua Magnum



Test Specifications/ Components

Firearm Used: Savage 116

Barrel Length: 26"

Twist: 1 x 10"

Case: Lapua

Trim-to Length: 2.714"

Primer: Fed 215

Remarks:

Also known as the 8.58x71mm, the 338 Lapua Magnum was introduced to the civilian market in 1987. Originally intended as a long-range sniper round for military use, Lapua felt the cartridge would also appeal to big game hunters. Sako has chambered hunting rifles for the new round, and it has indeed

caught the attention of hunters wanting a potent medium-bore magnum. Offering performance levels substantially above those of the proven 338 Winchester Magnum, the Lapua cartridge provides ballistics similar to those of the 340 Weatherby. Originally based on a modernized 416 Rigby case, the Lapua was one of the forerunners of the current trend to omit the unnecessary (and potentially troublesome) belted head design.

Considering Sierra's line of high ballistic coefficient 338 bullets, the Lapua seems to offer a tremendous amount of potential to the long-range hunter. The 215 grain Spitzer Boat Tail should prove best for smaller big game species, while the 250 grain will be the choice for heavier species such as elk, moose and bear. Sierra's 250 and 300 grain MatchKings will serve the needs of long-range tactical shooters and competitors out to (and even beyond) the 1,000 yard mark. While it hasn't been officially embraced by the military, rumor has it that it has seen action in the hands of some special operations troops.

The end of the millennium saw a flurry of new cartridge development, and the 338 bore size was not ignored. The number of new slow-burning powders that have hit the market in the last 15 years have been a driving force in the development of many of these. In essence, these new powders have opened up possibilities in performance that were previously unattainable. Most of the new offerings, the Lapua included, offered significant improvement in velocity and energy levels over the existing factory chamberings. While it may be too early to predict which of these newcomers will prove the most popular, it is nice to have such a wide selection.

.338 LAPUA MAG. - SIERRA BULLETS

338 Lapua Magnum continued

#2600 .338" 250 gr. SBT
C.O.A.L. 3.575"



#2650 .338" 250 gr. HPBT MatchKing
C.O.A.L. 3.680"



Powder/Velocity→	2750	2800	2850	2900	2950	3000
IMR-4350	78.3	79.9	81.4	83.0	84.5	
RE-19	80.8	82.5	84.2	85.9	87.6	89.3
Viht N560	82.1	83.7	85.3	86.8	88.4	90.0
XMR-3100	83.4	85.0	86.7	88.3	89.9	
H4831 SC	81.7	83.4	85.0	86.7	88.3	90.0
MagPro	86.7	88.7	90.7	92.7		
Viht N165	85.6	87.9	90.1	92.4		
RE-22	81.4	83.4	85.3	87.3	89.2	
WXR	82.0	84.0	86.0	87.9	89.9	
IMR-7828	83.6	85.5	87.3	89.2	91.0	
H1000	89.3	91.5	93.6	95.8	97.9	100.1
Magnum	89.2	91.4	93.6	95.8	98.0	
H870	96.6	99.3	101.9	104.6		
Retumbo	89.6	92.1	94.6			
Viht N170	91.4	93.4	95.5	97.5	99.5	
Energy/ft.lbs.	4199	4353	4510	4669	4832	4997

	Powder	Grains	Velocity	Ft. lbs.
Accuracy Load	Viht N165	92.4	2900	4669
Hunting Load	RE-19	89.3	3000	4997

Sierra does not recommend MatchKing bullets for hunting applications.

USE MAXIMUM LOADS WITH CAUTION.

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

Introduction

There has been a re-evaluation of the criteria for selecting data for inclusion. This means there will be some disagreement with previous data. The data in this guide takes precedence over all prior publications. *Previous editions of this loading guide should be discarded.*

For instance, we left out load combinations that were 'position sensitive'. This is what occurs when the load density is low. Velocity with the powder at the bullet is different from the velocity with the powder at the primer. More of these were noted with the ball propellants than with the extruded propellants.

In light of the growth of IPSC shooting, 38 Super Auto loads that make the 'major' classification (bullet weight x velocity = 175,000) are identified. While we have tested many combinations of components in 9mm Luger to attempt to meet 'major' requirements, we have not been able to find a load that makes the power floor for 'major' without exceeding SAAMI pressure recommendations. And while we were able to find loads for 38 Super Auto, they were not with lighter bullets. Turn to the data section for specific details.

In the charge tables, the 'START' charge listed for each load is our suggested beginning point with the components listed. There is the possibility that changing the named components could cause the maximum charge to be excessive, thus a reduction of the charge would be necessary. Some batches of military brass may require reducing the maximum charge by 8-12% to keep chamber pressure in line.

If you find signs of excessive pressure while using loads in this loading guide, STOP TESTING and verify all data and loading procedures. If they seem to be in order, check with our lab facility before proceeding.

Charge weights were obtained using industry standard pressure barrels. When time permitted, off-the-shelf weapons were used to obtain velocity figures. The guns used are noted.

In reloading, the prime concern should always be SAFETY. Always wear eye protection when reloading, even when working with the 'non-volatile' components. Always keep the reloading area clean. Never have more than one propellant within easy reach at any given time. Avoid having similar looking bullets of different weights on the bench at the same time. Read the safety notes before loading.

We have not found magnum primers to offer any particular advantage with our handgun powders. But, there are some rifle cartridges where they were used.

Handgun loads using the slower powders (No.7, No.9, and 1680) require heavy crimp and high bullet pull to insure consistency - particularly with cast bullet loads or in extremely cold weather. Be sure your dies are capable of this, otherwise the consistency of the load will be affected.

In the text, bullet weights for cast bullets - identified by (L) are actual weights, not the nominal weights.

.338 LAPUA MAG. - ACCURATE POWDERS

Bullet Weight (Grains)	Bullet Make	Bullet Type	Start Load (Grains)	Start Velocity (FPS)	Max Load (Grains)	Max Velocity (FPS)	Max Pressure (PSI)	COL (Inches)	
RAMSHOT MAGNUM									
200	HDY	SP	97.5	3,016	108.3	3,340	64,767	3.530	C
200	NOSLER	BST	98.9	3,067	109.9	3,380	63,348	3.605	C
200	NOSLER	PART	97.2	3,053	108.0	3,376	64,736	3.740	
200	NOSLER	E-TIP	94.5	2,993	104.9	3,319	64,877	3.720	
210	NOSLER	PART	95.0	2,946	105.5	3,268	64,585	3.610	
210	BARNES	TSX-BT	93.0	2,921	103.4	3,226	64,870	3.525	
215	SIERRA	SBT GK	93.6	2,944	104.0	3,249	64,608	3.625	
225	HDY	SP	93.9	2,852	104.3	3,153	64,577	3.555	
225	NOSLER	A-BOND	92.7	2,864	103.0	3,167	64,810	3.730	
225	NOSLER	PART	93.0	2,842	103.3	3,150	64,442	3.650	
225	SIERRA	SPT PH	90.6	2,824	100.7	3,097	64,297	3.585	
225	BARNES	TSX-FB	90.7	2,792	100.7	3,081	64,526	3.525	
230	LHG	MMF	92.7	2,882	103.0	3,170	64,313	3.655	C
245	LHG	M-HYB	88.9	2,779	98.8	3,077	64,559	3.970	
250	HDY	BTHP-M	89.7	2,741	99.6	3,040	64,816	3.682	
250	LAPUA	SCENAR	87.2	2,709	96.9	2,982	64,517	3.625	
250	NOSLER	PART	88.2	2,669	98.0	2,959	64,621	3.595	
250	SIERRA	SBT GK	84.3	2,736	93.7	2,985	64,811	3.594	
250	SIERRA	HPBT MK	89.2	2,746	99.1	3,026	64,865	3.705	
250	BARNES	TSX-FB	88.9	2,677	98.7	2,957	64,943	3.525	C
265	BARNES	TAC-TX	88.0	2,628	97.8	2,889	64,897	3.670	
285	HDY	BTHP-M	85.3	2,550	94.8	2,821	64,361	3.750	
285	BARNES	TAC-TX	84.4	2,512	93.7	2,753	64,639	3.625	
300	BERGER	HYBRID	82.4	2,476	91.5	2,732	64,492	3.820	
300	LAPUA	SCENAR	82.6	2,459	91.8	2,713	64,927	3.700	
300	SIERRA	HPBT MK	82.1	2,455	91.2	2,707	64,703	3.715	

C = Compressed Charge

USE MAXIMUM LOADS WITH CAUTION.
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

.338 LAPUA MAG. - ALLIANT POWDERS

Caliber & Bullet	Powder	Primer	Case	Min OAL inches	Chg Wgt grains	Velocity fps
338 Lapua Magnum						
225-gr Barnes TSX	Reloder 33	Fed. 215	Lapua	3.635	106.0	3118
250-gr Sierra MatchKing	Reloder 33	Fed. 215	Lapua	3.645	103.5	3001
250-gr Nosler Partition	Reloder 33	Fed. 215	Lapua	3.635	99.3	2934
300-gr Sierra MatchKing	Reloder 33	Fed. 215	Lapua	3.645	97.5	2748

NEVER EXCEED MAXIMUM LOADS.



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Data Manual***

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Rifle, lead bullet and pistol data and more included.

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Shawnee Mission, KS 66202
(913) 362-9455
www.hodgdon.com

.338 LAPUA MAG. - HODGDON POWDERS

Powder	Starting Loads			Maximum Loads		
	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure
Bullet: 210 GR. NOS PART Dia: .338" Col: 3.525"						
Retumbo	92.0	2846	42,100 CUP	102.0C	3142	52,600 CUP
H1000	90.0	2800	42,900 CUP	99.5	3052	52,500 CUP
IMR 7828	88.0	2920	47,300 CUP	93.4	3099	52,900 CUP
H4831	80.0	2735	44,600 CUP	89.0	3006	53,000 CUP
Hybrid 100V	77.0	2760	45,200 CUP	84.0	2948	52,500 CUP
IMR 4831	83.0	2920	47,900 CUP	88.5	3076	53,500 CUP
H4350	76.0	2834	47,000 CUP	82.0	3005	52,200 CUP
IMR 4350	80.0	2891	46,400 CUP	85.0	3034	51,900 CUP
Bullet: 215 GR. SIE SPBT Dia: .338" Col: 3.550"						
Retumbo	94.0	2849	43,700 CUP	104.0C	3125	51,900 CUP
H1000	92.0	2809	43,500 CUP	102.0C	3068	53,000 CUP
IMR 7828	87.7	2906	47,600 CUP	93.3	3076	51,900 CUP
Supreme 780	88.4	2910	44,700 CUP	94.0	3067	50,500 CUP
H4831	82.0	2763	44,500 CUP	91.0	2997	53,000 CUP
IMR 4831	83.0	2868	45,900 CUP	88.5	3033	52,600 CUP
H4350	76.0	2791	45,000 CUP	84.0	3015	52,800 CUP
IMR 4350	80.0	2888	45,900 CUP	85.0	3042	52,200 CUP
Bullet: 225 GR. NOS PART Dia: .338" Col: 3.550"						
Retumbo	92.0	2744	41,200 CUP	102.0C	3040	52,300 CUP
H1000	91.0	2713	42,100 CUP	101.0C	2995	53,100 CUP
IMR 7828	85.0	2831	46,900 CUP	90.5	2966	52,100 CUP
Supreme 780	86.5	2877	44,100 CUP	92.0	3007	50,600 CUP
H4831	80.0	2699	44,000 CUP	89.6	2918	52,900 CUP
Hybrid 100V	76.0	2760	45,300 CUP	83.0	2942	52,700 CUP
IMR 4831	81.8	2794	47,300 CUP	87.0	2965	53,500 CUP
H4350	74.0	2715	45,200 CUP	82.5	2936	52,800 CUP
IMR 4350	78.0	2821	45,200 CUP	83.3	2944	52,300 CUP

C = Compressed Charge

NEVER EXCEED MAXIMUM LOADS.

.338 LAPUA MAG. - HODGDON POWDERS

Powder	Starting Loads			Maximum Loads		
	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure
Bullet: 275 GR. SFT SP Dia: .338" Col: 3.460"						
US 869	99.0	2636	46,200 CUP	104.5	2761	52,200 CUP
Retumbo	80.0	2421	41,800 CUP	89.0	2671	52,700 CUP
H1000	83.0	2444	43,500 CUP	91.5C	2648	52,600 CUP
IMR 7977	81.8	2518	51,600 PSI	89.0	2719	61,700 PSI
IMR 7828	73.0	2429	44,500 CUP	81.0	2632	53,000 CUP
Supreme 780	79.0	2562	45,800 CUP	84.0	2676	50,700 CUP
H4831	71.0	2349	42,800 CUP	79.0	2572	52,800 CUP
IMR 4831	73.0	2450	46,000 CUP	77.3	2584	52,900 CUP
Bullet: 300 GR. SIE HPBT Dia: .338" Col: 3.600"						
US 869	98.5	2567	47,500 CUP	104.0	2677	51,500 CUP
Retumbo	85.0	2376	41,100 CUP	94.0C	2654	53,400 CUP
H1000	83.0	2383	43,200 CUP	92.0C	2590	53,000 CUP
IMR 7977	85.5	2482	50,900 PSI	93.0	2688	62,600 PSI
IMR 7828	73.0	2376	44,600 CUP	81.0	2566	53,000 CUP
Supreme 780	79.0	2460	45,100 CUP	84.0	2593	50,600 CUP
H4831	71.0	2307	44,400 CUP	79.0	2511	53,100 CUP
IMR 4831	68.0	2316	43,500 CUP	76.0	2541	53,300 CUP

C = Compressed Charge

NEVER EXCEED MAXIMUM LOADS.

.338 LAPUA MAG. - VIHTAVOURI POWDERS

.338 Lapua Magnum

Test barrel: 700 mm (27½"), 1 in 10" twist

Primers: Large Rifle Magnum

Cases: Lapua, trim-to length 69,00 mm (2.714")

Bullet						Powder		Starting load				Maximum load			
Weight		Type	Mfg	C.O.L		Type	Weight		Velocity			Weight		Velocity	
[g]	[grs]			[mm]	[in.]		[g]	[grs]	[m/s]	[fps]		[g]	[grs]	[m/s]	[fps]
13,0	200	SP	Hornady	91,0	3.583	N160	5,81	89.6	926	3038		6,22	96.0	993	3259
						N165	6,24	96.3	935	3068		6,66	102.8	1005	3297
14,6	225	SP	Hornady	91,0	3.583	N160	5,07	78.3	830	2723		5,64	87.0	900	2953
						N560	5,35	82.6	865	2838		5,86	90.5	934	3065
						N165	5,40	83.2	839	2753		6,01	92.8	915	3000
						N170	5,75	88.8	847	2779		6,33	97.6	917	3009
15,0	231	Naturalis LR	Lapua	90,5	3.563	N160	4,73	73.0	793	2602		5,35	82.6	876	2874
						N165	5,00	77.2	797	2615		5,80	89.5	897	2943
						N560	5,19	80.1	817	2680		5,75	88.7	913	2995
16,2	250	Scenar	Lapua	93,5	3.681	N560	4,94	76.2	778	2552		5,50	84.9	884	2900
						N165	4,95	76.4	782	2566		5,61	86.6	864	2835
						N170	5,50	84.9	797	2615		6,17	95.2	883	2897
						N570	5,57	86.0	829	2720		6,22	96.0	920	3018
16,2	250	Lock Base	Lapua	91,5	3.602	N165	4,89	75.5	781	2562		5,67	87.5	871	2858
						N560	5,04	77.8	781	2562		5,71	88.1	895	2936
						N170	5,36	82.7	789	2589		6,23	96.1	892	2927
						N570	5,60	86.4	830	2723		6,22	96.0	920	3018
16,2	250	A-Frame	Swift	88,8	3.496	N560	4,41	68.1	753	2470		5,38	83,0	861	2825
						N165	4,48	69.1	737	2418		5,40	83,3	834	2736
						N570	5,26	81.2	795	2608		6,05	93,4	889	2917

USE MAXIMUM LOADS WITH CAUTION.
LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

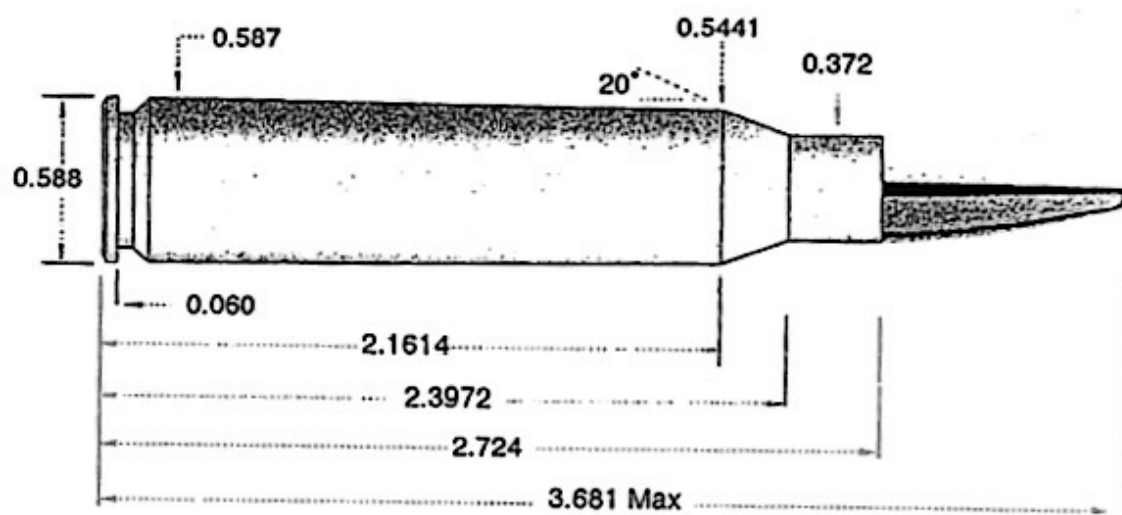
.338 Lapua

Although conceived in Finland by Lapua Ltd., the .338 Lapua was produced in answer to a request from the United States military for a new, long-range anti-personnel sniper round. The round was designed to be more powerful than the 7.62 NATO, yet not nearly so cumbersome as the .50 BMG.



While the .338 Lapua may look like it takes its origins from the time-tested .416 Rigby cartridge, it is indeed a new case of original Lapua design. It's able to withstand higher pressures than most cases currently in use by today's shooters.

One of our newer and most powerful cartridges, the .338 Lapua is usually overlooked. In this country, few rifles are currently chambered for this round. However, many of today's actions can easily be altered to accept this potent cartridge. Pushing Barnes' 225-grain Triple-Shock bullets at 3000 feet per second (fps) and the 250-grain TSX at over 2800 fps, this cartridge is capable of handling any of the world's thin-skinned dangerous game. With the excellent case life offered by Lapua brass, this cartridge makes a near-perfect platform for a long-range big-game rifle. —Bret Graveline



Case: Norma
Case Trim Length: 2.714"
Twist Rate: 1:10"

Primer: Federal GM215M
Barrel Length: 24"
Barrel: Wiseman

.338 LAPUA MAG. - BARNES BULLETS

.338 Lapua



225-grain TSX FB

Sectional Density .281
Ballistic Coefficient .386
C.O.A.L 3.530"

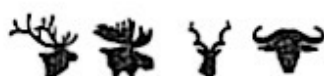
Suggested Bullet Use



225-grain MRX BT

Sectional Density .281
Ballistic Coefficient .433
C.O.A.L 3.560"

Suggested Bullet Use



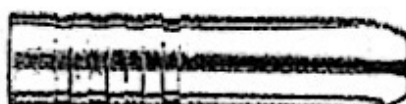
Powder Brand	Minimum		Maximum		Load Density (%)
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	
MagPro	85.0	2776	92.0	2967	85
*Magnum	90.0	2841	97.0	3039	91
RL 25	86.5	2883	91.5	3012	93
Retumbo	88.0	2860	93.0	2981	97
US869	101.5	2862	106.5	2990	98



250-grain TSX FB

Sectional Density .313
Ballistic Coefficient .425
C.O.A.L 3.530"

Suggested Bullet Use



250-grain BND SLD

Sectional Density .313
Ballistic Coefficient .208
C.O.A.L 3.520"

Suggested Bullet Use



Powder Brand	Minimum		Maximum		Load Density (%)
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)	
H1000	83.0	2642	88.0	2771	93
Magnum	86.0	2704	91.0	2836	89
RL 25	81.5	2705	86.5	2836	91
*Retumbo	82.0	2651	87.0	2792	94
US869	97.5	2720	102.5	2842	98
VIT N170	84.0	2654	89.0	2810	92
VIT 24N41	87.5	2682	92.5	2791	99

Maximum loads should be used with caution - Always Start With Minimum Loads.

* Most Accurate Load

.338 LAPUA MAG. - SWIFT BULLETS

Test Components

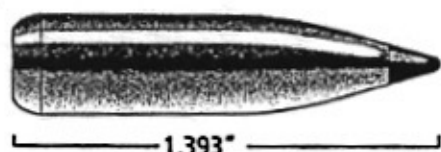
Case	Norma	Barrel Length	24"
Primer	CCI-250	Barrel Twist	1-10"
Test Barrel	Wiseman		

Bullet Specifications

Scirocco™ Spitzer (.338" diameter)

Grain
Weight

210

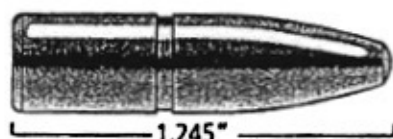


B.C. .507
Sec. Den. .263

A-Frame™ Semi-Spitzer (.338" diameter)

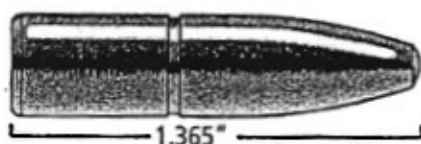
Grain
Weight

225



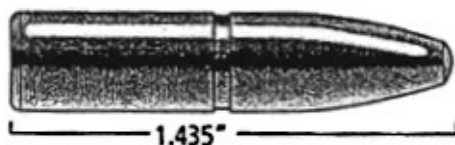
B.C. .384
Sec. Den. .281

250



B.C. .427
Sec. Den. .313

275



B.C. .469
Sec. Den. .344

.338 LAPUA MAG. - SWIFT BULLETS

Reloading Data

210 Grain Scirocco™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density

Hodgdon Powder Company

Swift Scirocco	210	H-1000	86.9	2748	93.5	2912	92%
	210	Retumbo	88.3	2672	95.0	2996	94%

Alliant Powder Company

Swift Scirocco	210	RL-25	88.3	2773	95.0	2965	94%
	210	*RL-33	96.7	2678	104.0	3035	103%

IMR Powder Company

Swift Scirocco	210	IMR-7828	82.7	2695	89.0	2870	88%
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**Lowest Standard Deviation on Velocity*

- ☐ Indicates maximum load—never exceed maximum load!
Loads less than minimum charges shown are not recommended

.338 LAPUA MAG. - SWIFT BULLETS

Reloading Data

250 Grain A-Frame™



Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density

Hodgdon Powder Company

Swift A-Frame	250	H-1000	81.8	2597	88.0	2703	85%
	250	H-4831	75.8	2575	81.5	2717	79%

Alliant Powder Company

Swift A-Frame	250	*RL-22	75.8	2565	81.5	2726	79%
	250	RL-25	83.7	2710	90.0	2861	87%

IMR Powder Company

Swift A-Frame	250	IMR-4831	71.6	2550	77.0	2688	74%
	250	IMR-7828	75.3	2545	81.0	2729	78%

*Lowest Standard Deviation on Velocity

- ☐ Indicates maximum load—never exceed maximum load!
Loads less than minimum charges shown are not recommended

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"The strongest reason for people to retain the right to keep and bear arms is, as a last resort, to protect themselves against tyranny in government."

Thomas Jefferson