The Complete Reloading Manual for the 6.5 Creedmoor

The publisher is deeply indebted to the following companies for their permission to reprint their proprietary reloading information in this manual.

Accurate Arms Company, Inc.
Alliant Technologies
Barnes Bullets
Blount, Inc.
Hodgdon Powder Co., Inc
Hornady Manufacturing Company
Nosler Bullets, Inc.
RCBS Bullets
Sierra Bullets, L.P.
Speer Bullets
Vihtavouri

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.
HDY	Hornady Manufacturing Company
IMI	Israel Military Industry Ltd.
LAPUA	Nammo 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
BTT	Boat Tail Target
BTTLR	Boat Tail Target Long Range
BTV	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
FMJ	Full Metal Jacket
FMJ-BT	Full Metal Jacket Boat Tail
FMJ-CT	Full Metal Jacket - Combat/Target
FN	Flat Nose
FN-O	Flat Nose Original (Barnes)
FNSP	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
LRX	Long Range X Bullet
M 855	US Military Enhanced Penitrator
M-HYB	Match Hybrid
M-TSP	Mag-Tip Soft Point
MIL	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 Lokt
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
SMP	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
SPZSP	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, M/LE
TAC-XP	Tactical X-Bullet, M/LE
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	Varminator
VARMG	Varmageddon
VG	Varmint Grenade
VLC	Varmint bullet with Dry Lubricant Coating
VLD	Very Low Drag
VNX	Varmint Nightmare X-treme
WBFPGC	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
WFPGC	Wide Flat Point Gas Check
WLCPP	Weldcore Protected Point
WLNGC	Wide Long Nose Gas Check
WNFPGC	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

< DISCLAIMER >

Unless otherwise agreed in writing, Alliant disclaims any warranties with respect to this product, the safety or suitability thereof, or the results obtained, whether express or implied, including, without limitation, any implied warranty. Buyers and users assume all risk, responsibility, and liability whatsoever for any and all injuries (including death), losses or damages to persons or propertry arising from the use of this product, whether or not occasioned by seller's negligence or based on strict product liability or principles of identity or contribution. Alliant neither assumes nor authorizes any person to assume for it any liability in connection with the use of this product.

< NOTICE >

The information presented is based upon results obtained in our ballistics laboratory. Safe loading practices should be observed at all times. Since Vihta Vouri Powder Company has no control over the circumstances of loading, we assume no liability for the results obtained, and we guarantee only that our powder meets our manufacturing standards.

< WARNING >

The Hodgdon Powder Company makes no warranties or guarantees with respect to the safety or suitability of Hodgdon, IMR or Winchester products or the reloading information contained on these pages, either express or implied. Buyer and user assume any and all risk, responsibility and liability for any and all injury (including death), loss or damage arising from usage.

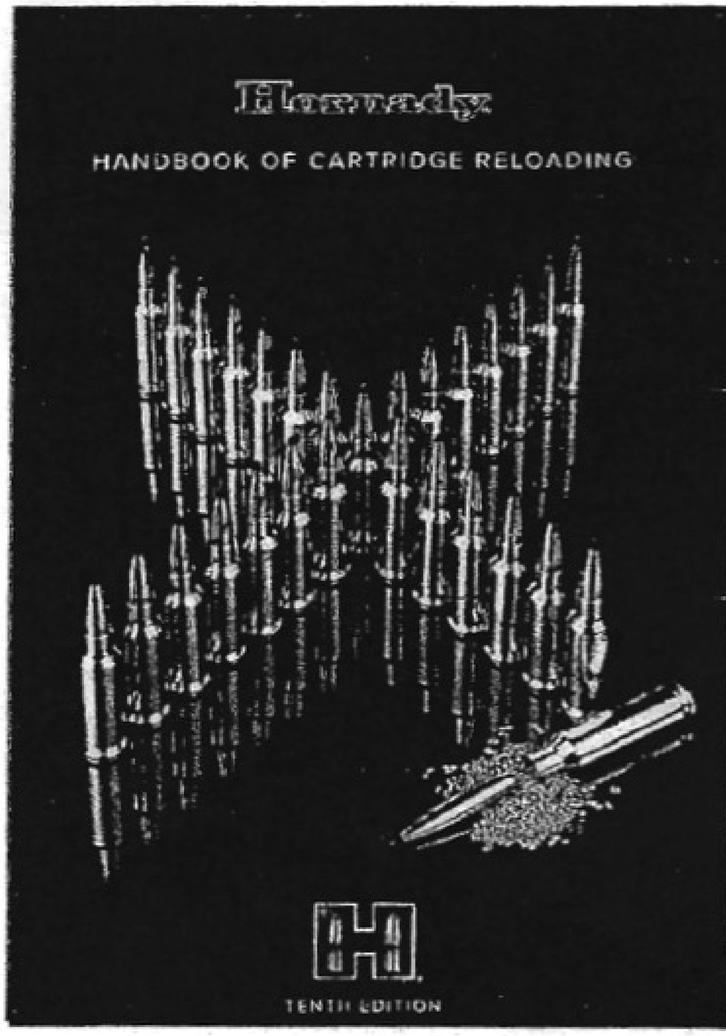
< CAUTION >

All Accurate Arms Company, Inc. listed loads are for professional use and are not intended as instructional material or text for the novice. Examine each fired case as you work up a load. Do not load to maximum charge levels without knowing the design limits of the firearm. Do not exceed maximum charges listed. Double check each step. Guard against errors in powder charge and bullet weight. Slight variations in components can create dangerous pressure levels.

< WARNING >

Ramshot makes no warranties express or implied, limited or full; specifically disclaim any and all warranties of fitness for a particular purpose and merchantability; and specifically disclaim any and all liability for consequential damages of any kind whatsoever. Failure to comply with warning or to use this data exactly as shown may result in accidents with serious injury and/or death to the shooter and/or bystanders.

The Hornady Handbook of Cartridge Reloading 10th Edition

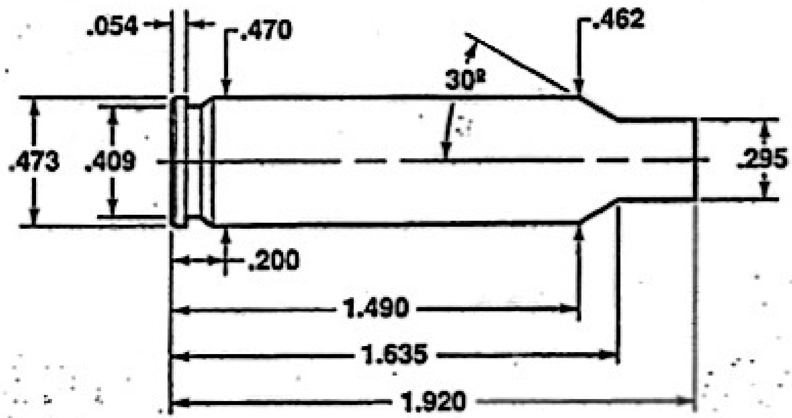


This new manual contains the most up-to-date reloading information available. Volume 10 contains the loading formulas for all Hornady rifle and pistol bullets. Ballistic tables and charts are available at www.hornady.com. This volume is available at your reloading dealer.

Hornady

OUR REPUTATION RIDES ON EVERY SHOT

Hornady
3625 West Old Potash Hwy
Grand Island, NE 68803
(800) 338-3220
www.hornady.com



6.5 CREEDMOOR

RIFLE: . . . . . . Remington 700/Custom
BARREL: . . . . 24", 1 in 8" Twist
CASE: . . . . .Hornady
PRIMER: . . . . .Federal 210M

BULLET DIAMETER: . . . . 0.264"
MAXIMUM C.O.L.: . . . . 2.800"
MAX. CASE LENGTH: . . . . 1.920"
CASE TRIM LENGTH: . . . . 1.910"

Very possibly the most well balanced cartridge to ever grace the pages of the Hornady Handbook of Cartridge Reloading, the 6.5 Creedmoor was developed by Hornady Senior Ballistics Scientist, Dave Emary and Dennis DeMille in 2007 and announced in the 2008 Hornady Catalog. Based on the 30 TC, a 2007 Hornady introduction, it is a shortened and improved design based loosely on the 308 Winchester.

The 6.5 Creedmoor was designed as the ultimate "across the course" cartridge and initial factory offerings were with 120 and 140 grain A-MAX® bullets and factory load data printed on the label so that the ammunition could be matched by handloader.

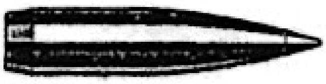
One of the biggest advantages the 6.5 Creedmoor has over cartridges like the 260 Remington and the 6.5 – 284 is the fact that it was designed ground up as a short action cartridge. While the body of the 6.5 Creedmoor is shorter than the 260 Remington the fact that bullets do not need to be seated as deep means that it has as much useable propellant payload capacity AND bullets can be loaded longer to accommodate different throats and still fit in short action magazines.

When reloading the 6.5 Creedmoor the handloader should note that it prefers medium to medium slow burning propellants Hodgdon Varget, H4350, RL-15 and Norma URP. The Creedmoor is equally comfortable at the National Matches as it is in the field. Its light recoil and low muzzle blast make it the perfect cartridge for new or recoil sensitive shooters.

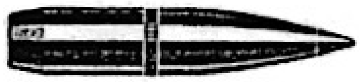
6.5 CREEDMOOR - HORNADY BULLETS

129 GRAIN BULLETS

SECTIONAL DENSITY: 0.264
DIAMETER: 0.264"



129 gr. InterBond®
B.C.: 0.485 C.O.L.: 2.670"
Item No. 26209



129 gr. SST®
B.C.: 0.485 C.O.L.: 2.670"
Item No. 26202

129 gr. InterLock® SP
B.C.: 0.445 C.O.L.: 2.690"
Item No. 2620

VELOCITY FPS - feet per second							
POWDER	2600	2650	2700	2750	2800	2850	2900
NORMA 203 B	35.5 gr.	36.3 gr.	37.2 gr.	38.0 gr.	38.8 gr.		
VARGET	35.5 gr.	36.4 gr.	37.3 gr.	38.2 gr.			
Alliant RL-15	35.9 gr.	36.7 gr.	37.5 gr.	38.4 gr.	39.2 gr.		
WIN 748	35.8 gr.	36.7 gr.	37.6 gr.	38.4 gr.	39.3 gr.		
BIG GAME	38.9 gr.	39.7 gr.	40.4 gr.	41.1 gr.	41.8 gr.		
NORMA URP	38.8 gr.	39.6 gr.	40.5 gr.	41.3 gr.	42.1 gr.	42.9 gr.	
Accurate 4350	39.1 gr.	40.0 gr.	40.7 gr.	41.5 gr.	42.4 gr.	43.2 gr.	
Alliant RL-17	39.2 gr.	40.0 gr.	40.8 gr.	41.6 gr.	42.5 gr.	43.6 gr.	
IMR 4350	39.8 gr.	40.6 gr.	41.4 gr.	42.2 gr.	43.0 gr.		
Hybrid 100V	40.5 gr.	41.4 gr.	42.3 gr.	43.2 gr.	44.0 gr.	44.9 gr.	
WIN 760	40.7 gr.	41.6 gr.	42.5 gr.	43.4 gr.	44.2 gr.	45.1 gr.	46.0 gr.
H4350	41.1 gr.	41.9 gr.	42.8 gr.				
SUPERFORMANCE	42.6 gr.	43.4 gr.	44.2 gr.	45.0 gr.	45.8 gr.	46.7 gr.	

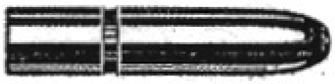
Hornady ballistics tables are available at hornady.com/ballistics

INDICATES MAXIMUM LOAD-USE WITH CAUTION

6.5 CREEDMOOR - HORNADY BULLETS

160 GRAIN BULLETS

SECTIONAL DENSITY: 0.328
DIAMETER: 0.264"



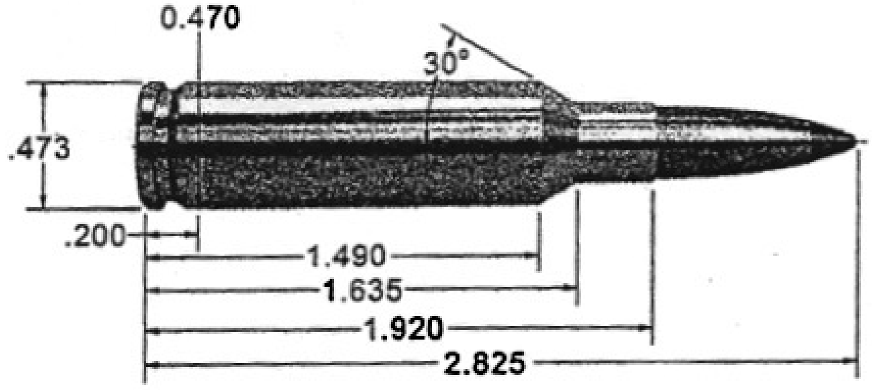
160 gr. InterLock® RN
B.C.: 0.283 C.O.L.: 2.740"
Item No. 2640

	VELOCITY (FPS - feet per second)					
POWDER	**2300**	**2350**	**2400**	**2450**	**2500**	**2550**
VARGET	33.4 gr.	34.3 gr.	35.2 gr.			
NORMA 203 B	33.6 gr.	34.6 gr.	35.7 gr.	36.7 gr.		
Alliant RL-15	34.0 gr.	35.1 gr.	36.1 gr.	37.2 gr.		
WIN 748	34.4 gr.	35.4 gr.	36.5 gr.			
BIG GAME	35.6 gr.	36.8 gr.	37.9 gr.	39.1 gr.	40.2 gr.	
NORMA URP	36.0 gr.	37.0 gr.	38.0 gr.	38.9 gr.	39.9 gr.	
H4350	36.5 gr.	37.5 gr.	38.6 gr.	39.6 gr.	40.6 gr.	
IMR 4350	36.8 gr.	37.7 gr.	38.7 gr.	39.6 gr.	40.5 gr.	
Accurate 4350	37.0 gr.	37.9 gr.	38.8 gr.	39.8 gr.		
WIN 760	38.1 gr.	39.0 gr.	40.0 gr.	41.0 gr.	42.0 gr.	42.9 gr.

Hornady ballistics tables are available at hornady.com/ballistics

INDICATES MAXIMUM LOAD-USE WITH CAUTION

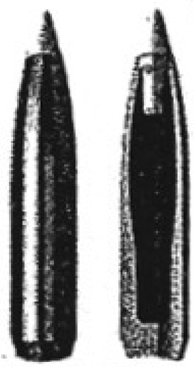
6.5 CREEDMOOR - NOSLER BULLETS



Maximum S.A.A.M.I. Overall Cartridge Length: 2.825"

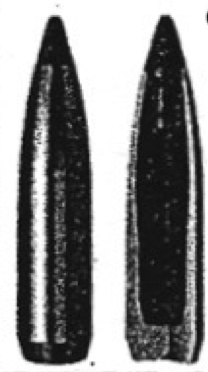
BULLET CHOICES FOR THE 6.5 CREEDMOOR

AccuBond®



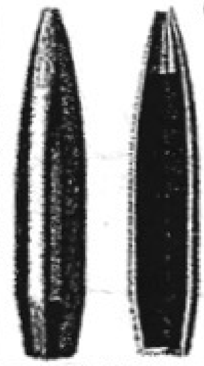
Grain
130
140

Ballistic Tip®



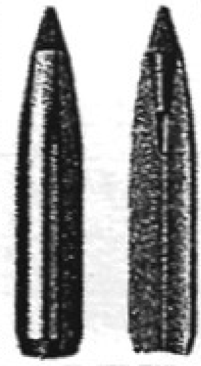
Grain
100
120
140

Custom Competition



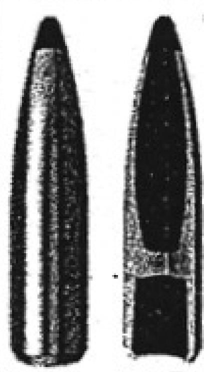
Grain
123
140

E-Tip®



Grain
120

Partition®



Grain
100
125
140

6.5 Creedmoor - 120 grain		MAXIMUM S.A.A.M.I. O.A.C.L. / TESTED O.A.C.L.	2.825" / B.C.	S.D.
Ballistic Tip®	120gr. Spitzer	2.775"	0.458	0.246
E-Tip®	120gr. Spitzer	2.775"	0.497	0.246

Due to internal construction differences, always begin with starting loads when using E-Tip® products.

CASE TYPE:	Hornady		PRIMER TYPE	Fed 210
CASE HOLDS:	48.4	Gr. WATER	BARREL Length/Make	24" Pac-Nor
			BARREL Twist	1-8"

POWDER TYPE	POWDER CHG. GRS.		MUZZLE VEL. F.P.S.	LOAD DENSITY (VOLUME)
IMR 4895 Most Accurate Powder Tested	39.5 *	MAX.	2945	90%
	37.5		2821	85%
	35.5		2702	81%
Varget	40.0	MAX.	2951	89%
	38.0 *		2823	85%
	36.0		2711	80%
W760	44.5	MAX.	2973	96%
	42.5		2866	92%
	40.5 *		2728	88%
IMR 4007 SSC	43.5	MAX.	2975	96%
	41.5		2841	92%
	39.5 *		2732	87%
Big Game	44.5	MAX.	2980	97%
	42.5 *		2878	92%
	40.5		2761	88%
H4350	45.0	MAX.	3022	98%
	43.0 *		2894	94%
	41.0		2788	90%
RL17	44.5	MAX.	3060	95%
	42.5 *		2896	91%
	40.5		2780	87%
Hunter	48.5	MAX.	3068 **	105%
	46.5		2959 **	101%
	44.5 *		2843	97%

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

Use Maximum Loads with Caution

6.5 Creedmoor - Nosler Bullets

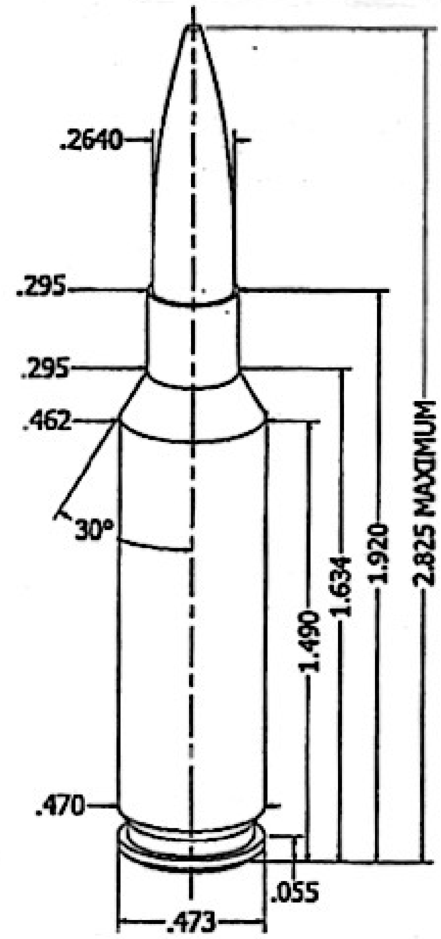
6.5 Creedmoor - 130 grain			MAXIMUM S.A.A.M.I. O.A.C.L.		2.825"
			TESTED O.A.C.L.	B.C.	S.D.
AccuBond®		130gr. Spitzer	2.775"	0.488	0.266
CASE TYPE:	Hornady	PRIMER TYPE		Fed 210	
CASE HOLDS:	47.1 Gr. WATER	BARREL Length/Make		24" Pac-Nor	
		BARREL Twist		1-8"	

POWDER TYPE	POWDER CHG. GRS.		MUZZLE VEL. F.P.S.	LOAD DENSITY (VOLUME)
RL15	39.0 •	MAX.	2810	86%
Most Accurate	37.0		2687	82%
Powder Tested	35.0		2581	77%
Varget	38.5	MAX.	2812	88%
	36.5 •		2699	84%
	34.5		2586	79%
W748	39.5	MAX.	2822	87%
	37.5		2693	83%
	35.5 •		2572	79%
Big Game	43.0 •	MAX.	2839	96%
	41.0		2741	92%
	39.0		2631	87%
H4350	43.0	MAX.	2865	97%
	41.0 •		2751	92%
	39.0		2639	88%
W760	44.0	MAX.	2906	98%
	42.0		2775	93%
	40.0 •		2670	89%
Hybrid 100V	43.5	MAX.	2935	95%
	41.5		2800	91%
	39.5 •		2665	86%
RL17	43.5	MAX.	2953	98%
	41.5		2783	94%
	39.5 •		2660	89%

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

Use Maximum Loads with Caution

6.5 Creedmoor



Test Specifications/ Components

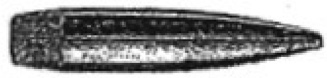
Firearm Used: Universal Receiver
Barrel Length: 24"
Twist: 1-8"
Case: Hornady
Trim-to Length: 1.910"
Primer: Winchester WLR

Remarks:

Developed in 2007 by Dennis DeMille and Dave Emary, the 6.5 Creedmoor is a shortened and improved 30 TC cartridge case that was inspired by the .308 Winchester design. This short action design was created to maximize case capacity and a wide range of loading lengths, while still fitting in standard short action magazines. With the correct twist barrel, the versatile 6.5 Creedmoor can take advantage of the wide range of bullet weights available in 6.5mm. Reloaders should keep in mind that the 6.5 Creedmoor works best with medium to medium-slow powders such as H4350, Varget, Win 760, and RE-17. The light recoil and adaptability of the efficient 6.5 Creedmoor cartridge has already proven itself in high power, precision rifle series and benchrest competitions. Couple that with respectable barrel life and its intrinsic accuracy potential and you have a recipe for success which should insure its legacy for decades to come.

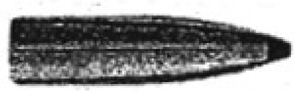
6.5 Creedmoor

#1715 .264" 107 gr. HPBT
C.O.A.L. 2.790"



Powder↓ / Velocity →	2700	2800	2900	3000	3100	3200
IMR 8208 XBR	34.7	36.1	37.5	38.9	40.3	
H4895	34.6	36.1	37.5	39.0	40.4	
IMR 4895	35.9	37.2	38.5	39.7		
Varget	35.8	37.3	38.7	40.2	41.7	
IMR 4064	35.9	37.2	38.5	39.8		
RE 15	36.5	37.8	39.1	40.3	41.6	
Win 760	41.4	42.7	44.0	45.2	46.5	
RE 17	40.1	41.3	42.4	43.6	44.8	46.0
IMR 4451 End.	41.7	43.0	44.4	45.8		
Energy/ft.lbs	**1732**	**1862**	**1998**	**2138**	**2283**	**2432**

#1720 .264" 120 gr. Spitzer
C.O.A.L. 2.730"



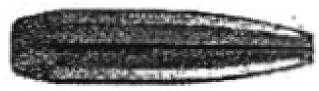
Powder↓ / Velocity →	2500	2600	2700	2800	2900	3000
IMR 8208 XBR	31.9	33.7	35.6			
IMR 4895	33.2	34.8	36.4	38.0	39.6	
Varget	32.0	33.8	35.6	37.4		
RE 15	33.1	34.9	36.6	38.3	40.1	
Win 760	37.0	38.9	40.7	42.5	44.4	
RE 17	36.0	37.4	38.9	40.4	41.8	43.3
IMR 4451 End.	37.5	39.3	41.1	42.9	44.7	
IMR 4350	38.4	40.1	41.7	43.4	45.0	
H4350	36.1	38.0	39.9	41.8	43.7	
Hybrid 100V	36.6	38.2	39.8	41.4	43.0	
Energy/ft.lbs	**1665**	**1801**	**1942**	**2089**	**2240**	**2398**

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

6.5 Creedmoor - Sierra Bullets

6.5 Creedmoor

#1728 .264" 130 gr. HPBT
C.O.A.L. 2.670"



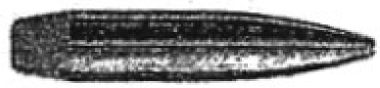
Powder↓ / Velocity →	2400	2500	2600	2700	2800	2900
H4895	32.8	33.6	35.1	36.7		
IMR 4895	32.8	34.2	35.7	37.2		
Varget	33.1	34.6	36.1	37.6		
IMR 4064	33.2	34.7	36.1	37.6		
RE 15	32.7	34.4	36.0	37.7	39.3	
Win 760	37.9	39.3	40.7	42.1	43.5	44.8
RE 17	36.3	37.7	39.1	40.4	41.8	43.2
RE 16	36.4	38.0	39.6	41.2	42.8	44.4
IMR 4451 End.	37.4	39.0	40.6	42.1	43.7	
IMR 4350	37.8	39.3	40.8	42.4		
H4350	36.4	38.0	39.7	41.3	42.9	
Hybrid 100V	35.8	37.3	38.9	40.5	42.0	
RE 19	40.2	41.6	43.0	44.4	45.8	
Energy/ft.lbs	**1662**	**1804**	**1951**	**2104**	**2263**	**2427**

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

6.5 Creedmoor

#1730 .264" 140 gr. SBT
C.O.A.L. 2.750"

#1740 .264" 140 gr HPBT
C.O.A.L. 2.810"



Powder↓ / Velocity →	2300	2400	2500	2600	2700	2800
H4895	31.2	32.8	34.4	36.0		
IMR 4895	32.5	33.9	35.4	36.9		
Varget	32.2	33.8	35.4	37.0		
IMR 4064	32.7	34.2	35.8	37.3		
RE 15	32.1	33.7	35.4	37.0	38.7	
BIG GAME	34.8	36.4	38.0	39.6	41.1	
RE 17	34.0	35.7	37.4	39.0	40.7	42.3
RE 16	35.0	36.7	38.4	40.1	41.8	43.5
IMR 4451 End.	36.9	38.4	39.9	41.4	42.9	
IMR 4350	36.3	37.8	39.3	40.8	42.3	
H4350	35.1	36.8	38.5	40.3	42.0	
Hybrid 100V	34.8	36.4	37.9	39.5	41.0	
RE 19	39.0	40.5	42.0	43.5	45.0	46.5
H4831sc	38.0	39.9	41.8	43.7	45.6	
Superformance	39.6	41.0	42.3	43.6	44.9	46.2
Energy/ft.lbs	**1644**	**1790**	**1943**	**2101**	**2266**	**2437**

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.

Praise The Load

With the Superior Performance of Hodgdon Powders

Superior accuracy can be achieved through reloading with reliable, consistently performing powder. To achieve this level of consistency, the experts at Hodgdon's select only the finest raw materials and give special attention to blending. Rigorous testing of ***each*** batch of powder further attests to Hodgdon's committment to quality.

For over 45 years, Hodgdon Powder has been a performance leader among shooters. This explains why more winning shooters competing in benchrest matches use Hodgdon Powder.

Hodgdon encourages every shooter to enjoy the advantages and economy of reloading with the superior performance of Hodgdon Powders.

For more information on reloading & Hodgdon Powders, write:

HODGDON POWDER COMPANY, INC.
P.O. Box 2932, Dept. AB
Shawnee Mission, KS 66201

HODGDON 'S INDUSTRY INSIDERS

Russ Rolandson
Sales, Speer Bullets
300 Win. Mag. Caliber
165 gr. Speer Grand Slam
72 Gr. Hodgdon H4350 Powder

	Starting Loads			Maximum Loads		
Powder	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure

6.5 CREEDMOOR

Case: Hornady
Twist: 1:8"
Barrel: 24"
Trim: 1.910"
Primer: Federal 210M, Large Rifle Match

Bullet: 95 GR. HDY V-MAX Dia: .264" Col: 2.670"

Powder	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure
H4350	43.0	2972	45,000 PSI	47.0C	3224	56,100 PSI
H414	42.0	2991	46,100 PSI	46.5	3243	57,100 PSI
760	42.0	2991	46,100 PSI	46.5	3243	57,100 PSI
IMR 4007 SSC	41.0	2964	45,400 PSI	45.5C	3288	59,800 PSI
CFE 223	40.4	3152	54,500 PSI	43.0	3274	60,000 PSI
Varget	39.0	3051	49,000 PSI	43.0	3286	60,100 PSI
IMR 4064	38.0	3009	45,800 PSI	41.6	3281	58,700 PSI
748	39.0	3050	50,200 PSI	43.0	3259	59,000 PSI
BL-C(2)	40.0	3082	49,800 PSI	44.0	3313	60,300 PSI
IMR 4895	38.0	3006	46,600 PSI	42.2	3295	60,400 PSI
H4895	37.0	3059	50,400 PSI	41.0	3276	60,300 PSI
IMR 8208 XBR	36.0	3041	50,800 PSI	40.0	3228	58,900 PSI

Bullet: 100 GR. BAR TTSX BT Dia: .264"
Col: 2.655"

Powder	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure
H4350	39.9	2895	49,200 PSI	44.7	3133	60,300 PSI
H414	39.7	2893	47,100 PSI	44.5	3163	60,400 PSI
760	39.7	2893	47,100 PSI	44.5	3163	60,400 PSI
IMR 4007 SSC	38.3	2929	52,900 PSI	43.1	3143	60,800 PSI
Varget	34.8	2867	50,700 PSI	39.0	3101	62,100 PSI
IMR 4064	35.1	2847	47,300 PSI	39.5	3116	60,400 PSI
IMR 4895	35.4	2819	46,600 PSI	39.8	3103	59,800 PSI
H4895	33.1	2819	49,100 PSI	37.3	3063	61,000 PSI
IMR 8208 XBR	33.2	2812	49,300 PSI	37.4	3056	60,900 PSI

C = Compressed Charge

NEVER EXCEED MAXIMUM LOADS.

6.5 CREEDMOOR - HODGDON POWDERS

	Starting Loads			Maximum Loads		
Powder	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure
Bullet: 120 GR. HDY A-MAX Dia: .264" Col: 2.670"						
H4350	40.5	2709	47,700 PSI	45.0C	2965	60,800 PSI
IMR 4451	40.2	2618	46,200 PSI	44.7	2929	61,400 PSI
H414	40.0	2684	47,100 PSI	44.5	2960	61,500 PSI
760	40.0	2684	47,100 PSI	44.5	2960	61,500 PSI
IMR 4007 SSC	39.0	2665	46,400 PSI	42.5	2907	58,700 PSI
Varget	36.0	2668	49,600 PSI	40.2	2891	60,400 PSI
IMR 4064	35,0	2666	47,200 PSI	38.9	2903	59,800 PSI
IMR 4166	34.7	2642	50,500 PSI	38.5	2867	61,500 PSI
748	36.0	2650	56,900 PSI	40.4	2899	59,900 PSI
BL-C(2)	37.0	2678	46,600PSI	41.3	2941	60,500 PSI
IMR 4895	35.0	2670	48,600 PSI	39.0	2895	59,300 PSI
H4895	34.0	2672	50,500 PSI	37.4	2858	60,400 PSI
IMR 8208 XBR	32.0	2564	45,800 PSI	36.0	2818	60,300 PSI
Bullet: 123 GR. SIE HPBT Dia: .264" Col: 2.670"						
H4350	40.0	2680	45,500 PSI	44.8	2951	59,700 PSI
IMR 4451	40.1	2627	46,600 PSI	44.6	2930	61,500 PSI
H414	40.0	2670	45,200 PSI	44.2	2938	58,900 PSI
760	40.0	2670	45,200 PSI	44.2	2938	58,900 PSI
IMR 4007 SSC	38.0	2622	44,000 PSI	42.5	2917	59,200 PSI
Varget	36.0	2712	51,100 PSI	39.8	2887	59,200 PSI
IMR 4064	35.0	2673	48,300 PSI	38.8	2882	58,300 PSI
IMR 4166	34.2	2624	49,200 PSI	38.0	2855	61,000 PSI
748	37.0	2650	45,600 PSI	40.8	2900	58,900 PSI
BL-C(2)	37.0	2640	43,800 PSI	41.3	2916	58,600 PSI
IMR 4895	35.0	2663	47,700 PSI	39.2	2896	59,900 PSI
IMR 8208 XBR	32.0	2570	46,100 PSI	36.0	2806	59,000 PSI

C = Compressed Charge

NEVER **EXCEED MAXIMUM LOADS.**

6.5 Creedmoor - Hodgdon Powders

	Starting Loads			Maximum Loads		
Powder	Grs.	Vel.	Pressure	Grs.	Vel.	Pressure
Bullet: 142 GR. SIE HPBT			**Dia: .264"**		**Col: 2.780"**	
Hybrid 100V	39.0	2581	50,200 PSI	41.5	2737	58,900 PSI
H4350	38.8	2573	52,300 PSI	41.5	2694	59,800 PSI
IMR 4451	37.3	2422	46,600 PSI	41.4	2691	61,200 PSI
H414	36.5	2470	50,900 PSI	40.2	2634	58,300 PSI
IMR 4350	39.2	2511	48,300 PSI	41.7C	2687	58,600 PSI
760	36.5	2470	50,900 PSI	40.2	2634	58,300 PSI
IMR 4007 SSC	37.9	2536	52,100 PSI	40.3	2677	60,000 PSI
H380	35.5	2399	47,000 PSI	39.2	2618	59,100 PSI
Varget	34.5	2489	52,600 PSI	36.3	2598	60,100 PSI
IMR 4064	34.6	2503	52,400 PSI	36.8	2614	59,500 PSI
IMR 4166	32.0	2383	48,900 PSI	35.5	2598	60,600 PSI
IMR 4895	33.8	2479	51,200 PSI	36.0	2599	59,500 PSI
H4895	32.4	2426	49,800 PSI	34.5	2551	58,000 PSI
IMR 8208 XBR	32.2	2431	51,500 PSI	33.5	2518	58,000 PSI

C = Compressed Charge

NEVER **EXCEED MAXIMUM LOADS.**

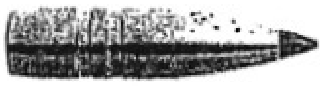
6.5 CREEDMOOR - VIHTAVOURI POWDER

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]
8,8	136	Scenar-L	Lapua	68,0	2.677	N150	2,08	32.1	724	2375	2,48	38.3	833	2733
						N540	2,10	32.4	739	2425	2,44	37.7	840	2756
						N550	2,32	35.8	756	2480	2,66	41.1	865	2838
						N160	2,59	40.0	770	2526	2,98	46.0	870	2854
9,0	139	Scenar	Lapua	69,0	2.717	N150	1,90	29.3	690	2264	2,30	35.5	793	2602
						N540	2,00	30.9	713	2339	2,38	36.7	817	2680
						N550	2,20	34.0	735	2411	2,57	39.7	841	2759
						N160	2,14	33.0	700	2297	2,73	42.1	833	2733
9,1	140	AccuBond	Nosler	71,0	2.795	N150	1,87	28.9	664	2178	2,27	35.0	770	2526
						N540	1,96	30.2	685	2247	2,30	35.5	790	2592
						N550	2,08	32.1	697	2287	2,48	38.3	808	2651
9,3	144	FMJBT	Lapua	69,0	2.717	N150	1,79	27.6	662	2172	2,29	35.3	781	2562
						N540	1,85	28.5	674	2211	2,26	34.9	788	2585
						N550	2,03	31.3	695	2280	2,44	37.7	812	2664
10,1	156	Mega	Lapua	68,5	2.697	N150	1,71	26.4	603	1978	2,17	33.5	727	2385
						N540	1,83	28.2	635	2083	2,20	34.0	739	2425
						N550	1,99	30.7	656	2152	2,37	36.6	763	2503
						N160	1,93	29.8	625	2051	2,48	38.3	754	2474

USE MAXIMUM LOADS WITH CAUTION

LOADS LESS THAN MINIMUM CHARGES SHOWN ARE NOT RECOMMENDED.

6.5 Creedmoor



100-grain TTSX BT / TAC-TX BT
Sectional Density .205
Ballistic Coefficient .359
C.O.A.L 2.700"

Suggested Bullet Use

Powder	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)
Big Game	41.9	2992	46.6	3247
RL 15	37.7	2886	41.9	3176
A-2700	42.4	2929	47.1^{C}	3258
IMR 4007SSC	40.1	2900	44.5^{C}	3215
Power Pro 2000MR	40.3	2956	44.7	3260
Win 760	41.8	2892	46.5	3233
H414	42.2	2942	46.8^{C}	3243
RL 17	40.7	2882	45.2	3235
IMR 4350	42.5	2908	47.2^{C}	3221
*H4350	42.9	2960	47.7^{C}	3292

120-grain TSX BT / TAC-X BT
Sectional Density .246
Ballistic Coefficient .381
C.O.A.L 2.700"

Suggested Bullet Use

120-grain TTSX BT / TAC-TX BT
Sectional Density .246
Ballistic Coefficient .412
C.O.A.L 2.720"

Suggested Bullet Use

Powder	Minimum Charge (grains)	Minimum Velocity (fps)	Maximum Charge (grains)	Maximum Velocity (fps)
Big Game	38.4	2659	42.6	2881
A-2700	39.4	2645	43.7	2916
*IMR 4007SSC	36.0	2612	40.0	2836
Power Pro 2000MR	37.3	2666	41.4	2895
Win 760	38.7	2615	43.1	2891
H414	38.3	2614	42.6	2859
RL 17	37.5	2625	41.6	2892
IMR 4350	38.7	2622	43.0	2879
H4350	38.2	2647	42.5	2870
Hunter	41.7	2661	46.3^{C}	2909

Maximum Loads Should Be Used With Caution - Always Start With Minimum Loads.
**Recommended Powder*
^{C} Compressed Load

6.5 Creedmoor

140-grain Match Burner
Sectional Density .287
Ballistic Coefficient .586
C.O.A.L 2.700"
Suggested Bullet Use

Powder	Minimum		Maximum	
	Charge (grains)	Velocity (fps)	Charge (grains)	Velocity (fps)
*RL 15	33.6	2460	37.3	2661
A-2700	36.2	2392	40.2	2655
RL 17	36.2	2446	40.2	2712
IMR 4350	38.8	2553	43.1	2800
H4350	36.1	2428	40.1	2639
Hunter	39.4	2481	43.8	2713
Hybrid 100V	37.1	2425	41.2	2705
Superformance	40.7	2474	45.2	2785

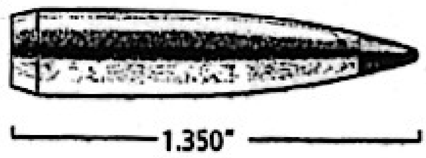
Maximum Loads Should Be Used With Caution - Always Start With Minimum Loads.
**Recommended Powder*
ᶜ Compressed Load

Bullet Specifications

Scirocco™ Spitzer (.264" diameter)

Grain Weight

130

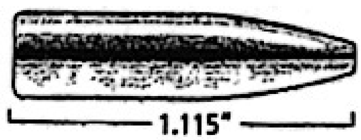


B.C. .571
Sec. Den. .266

A-Frame™ Semi-Spitzer (.264" diameter)

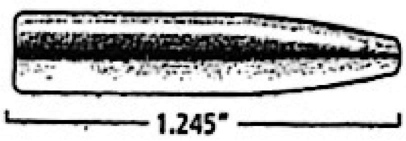
Grain Weight

120



B.C. .344
Sec. Den. .246

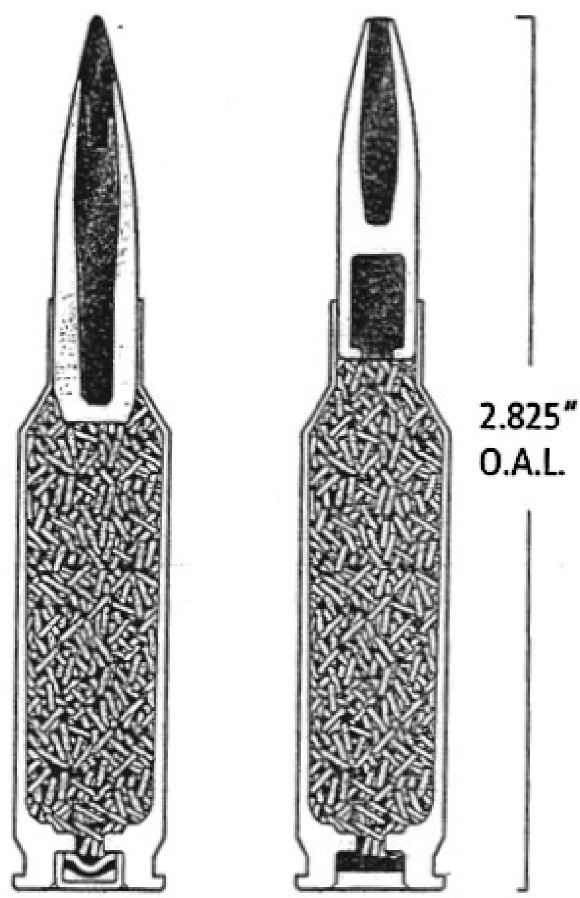
140



B.C. .401
Sec. Den. .287

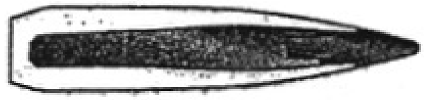
Loaded Cartridge Example

Scirocco™ (130 grain) A-Frame™ (120 grain)



Reloading Data

130 Grain Scirocco™

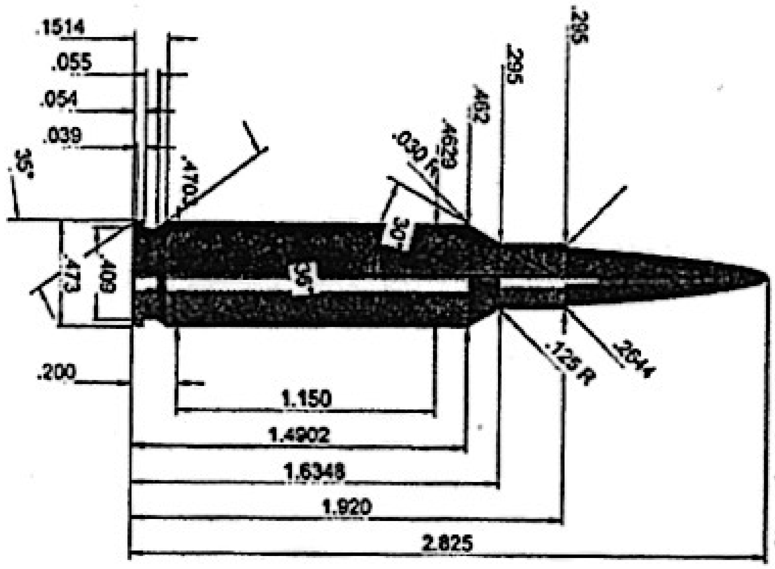


Bullet		Powder	Starting Load		Maximum Load		
Type	Grain Wt.	Type	Grain Wt.	Velocity	Grain Wt.	Velocity	Load Density
Hodgdon Powder Company							
	130	H-414	39.7	2564	42.7	2771	93%
Swift Scirocco	130	Hybrid 100V	41.4	2657	44.6	2841	97%
	130	Superformance	44.1	2664	47.5	2882	103%
Alliant Powder Company							
	130	RL-17	40.4	2665	43.5	2893	95%
Swift Scirocco	130	RL-19	43.7	2613	47.0	2826	102%
	130	RL-2000-MR	39.4	2639	42.4	2839	92%
IMR Powder Company							
	130	IMR-4007ssc	39.0	2609	42.0	2790	91%
Swift Scirocco	130	IMR-4064	35.7	2552	38.4	2743	83%
	130	*IMR-4350	41.8	2659	45.0	2844	98%

**Lowest Standard Deviation on Velocity*

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

6.5 Creedmoor



Case Trim Length = 1.910

Muzzle velocity will increase (or decrease) by approximately 25 fps per inch from a standard 24" barrel.

By Art Merrill

One of the concepts that drove development of the 6.5 Creedmoor in 2006 was the desire to produce a competition-grade cartridge that would be available as super accurate factory ammo, without the need for handloading. And that's what it is.

But don't let that stop you. The superior ballistic coefficient of 6.5mm bullets has been long recognized. The 6.5 Creedmoor was conceived and designed from the ground up as a competition cartridge to take advantage of that bullet's high BC, but with less recoil than the 6.5x284 that has ruled long range competition for the past two decades. It also uses less powder, which translates to longer barrel life. Another advantage the 6.5 Creedmoor has over the bigger cartridge is that it's short enough to feed through .308 Win size semi-auto magazines. In fact, any rifle chambered for the .308 is suitable for re-barreling to the 6.5 Creedmoor, as both cases have the same head diameter.

It's always best to get as close to game as possible to ensure a clean, humane shot, but in some kinds of hunting, "close" is relative. This is a fine cartridge for expected long shots on medium size game, such as in hunting pronghorn, goats and sheep, especially when coupled with Berger's 130 grain Match Grade VLD Hunting bullets. The bullet is also good for larger game, such as mule deer; but for elk, the 140 grain

6.5 Creedmoor
120 Grain

Barrel Length = 24"
COAL = 2.800"

120 GR MATCH BT TARGET
G1 BC = 0.453 *G7 BC = 0.232*
Part # 26402 - 1 in 9" twist or faster

We recommend using G7 BC to achieve the most accurate trajectory prediction.

Powder	Start Load	Approx. Start Vel.	Max Load	Approx. Max Vel.	Approx. Fill Ratio
VARGET	35.5	2579	39.5	2830	90%
VIHT N550	39.0	2610	43.5	2898	94%
H4350	39.5	2576	43.7	2840	90%
AA 4350	39.5	2611	43.8	2902	101%
WIN 760	39.5	2607	44.0	2902	92%
IMR 4831	39.5	2586	44.1	2880	101%
NORMA 204	40.0	2539	44.8	2855	95%
RAMSHOT HUNTER	41.0	2619	45.6	2913	97%
RE-19	41.5	2601	46.2	2907	102%

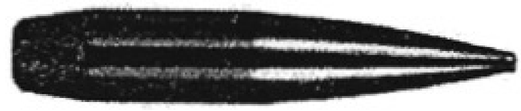
WARNING - APPROACH MAXIMUM LOADS WITH CAUTION AS ALL RIFLES AND RELOADING TECHNIQUES WILL BE DIFFERENT.

6.5 Creedmoor
140 Grain

Barrel Length = 24"
COAL = 2.800"

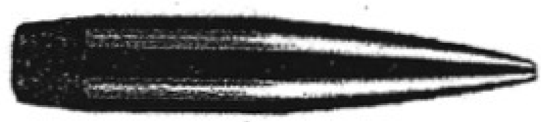
Optimal performance may be achieved in your rifle at a different COAL. *See page 148 for details.*

140 GR MATCH VLD TARGET
G1 BC = 0.612 ***G7 BC = 0.313***
Part # 26401 - 1 in 8" twist or faster

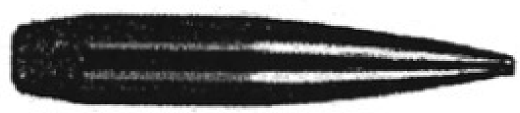


140 GR MATCH BT LONG RANGE TARGET
G1 BC = 0.592 ***G7 BC = 0.303***
Part # 26409 - 1 in 8" twist or faster

140 GR MATCH HYBRID TARGET
G1 BC = 0.618 ***G7 BC = 0.317***
Part # 26414 - 1 in 8" twist or faster



140 GR MATCH GRADE VLD HUNTING
G1 BC = 0.612 ***G7 BC = 0.313***
Part # 26504 - 1 in 8" twist or faster



We recommend using G7 BC to achieve the most accurate trajectory prediction.

Powder	Start Load	Approx. Start Vel.	Max Load	Approx. Max Vel.	Approx. Fill Ratio
VARGET	33.0	2388	36.7	2618	88%
VIHT N550	36.5	2441	40.4	2679	92%
AA 4350	36.5	2415	40.7	2685	99%
H4350	36.5	2378	40.7	2634	96%
HYBRID 100V	36.5	2401	40.9	2661	100%
WIN 760	36.5	2411	40.9	2689	90%
IMR 4831	37.0	2422	41.0	2665	99%
NORMA 204	37.5	2383	42.0	2669	94%
RAMSHOT HUNTER	38.0	2429	42.4	2700	95%
RE-19	38.5	2416	43.0	2699	100%

WARNING - APPROACH MAXIMUM LOADS WITH CAUTION AS ALL RIFLES AND RELOADING TECHNIQUES WILL BE DIFFERENT.