

22 ARC (Gas Gun)

Rifle:	Test Barrel	Bullet Diameter:	0.224"
Barrel:	24", 1 in 7" Twist	Maximum COL:	2.260"
Case:	Hornady	Max. Case Length:	1.525"
Primer:	Federal 205	Case Trim Length:	1.510"

The 22 ARC (Advanced Rifle Cartridge), officially launched in 2024, represents the ultimate in 22 caliber cartridges that fit into the AR-15 platform. It was purposefully designed to utilize the most efficient bullets available and maximize long-range capability for the varmint hunter and target shooter. The 22 ARC delivers flat trajectory, outstanding performance in the wind, and the ultimate in precision – all in a package that fits into the AR-15.

Design of the 22 ARC cartridge case was based on the 6.5 Grendel and the 6mm ARC. The maximum case length exceeds both the 6.5 Grendel and 6mm ARC slightly, at 1.525", but the 30° degree shoulder was retained along with the .441" case head diameter. The twist rate was specified at 1:7", which will easily stabilize even the longest 22 caliber Hornady bullets.

For the handloader, the 22 ARC offers versatile performance for a variety of uses. The varmint hunter will have a hard time finding a better bullet than the 62 gr. ELD-VT. For long-range target shooting, the Hornady ELD-Match line and 90 gr. A-Tip will be hard to beat. This capable cartridge can also be used for antelope and deer sized game with bullets like the 80 gr. ELD-X. In our testing, Hodgdon CFE 223 and LEVERevolution performed well.

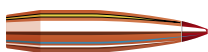
The data represented here is loaded within the SAAMI specified maximum pressure of 52,000 psi and is safe for all AR-15 systems. There is separate data included for bolt-action rifles, which is not to be used in gas-operated firearms.

53-55 GRAIN BULLETS

SECTIONAL DENSITY: 0.151-0.157
DIAMETER: 0.224"**53 gr. V-MAX®**
Item No. 22265
C.O.L.: 2.085"
G1 B.C.: 0.290**55 gr. V-MAX®**
Item No. 22271
C.O.L.: 2.085"
G1 B.C.: 0.255

POWDER	VELOCITY (FPS - feet per second)						
	2900	3000	3100	3200	3300	3400	3450
VIHT N-133	21.7 gr.	22.6 gr.	23.6 gr.				
Benchmark	23.3 gr.	24.3 gr.	25.3 gr.	26.3 gr.	27.3 gr.	28.3 gr.	
X-TERMINATOR	23.7 gr.	24.9 gr.	26.1 gr.	27.3 gr.	28.4 gr.		
Accurate 2230	23.6 gr.	24.8 gr.	25.9 gr.	27.0 gr.	28.1 gr.	29.2 gr.	29.8 gr.
IMR 8208 XBR	24.0 gr.	25.0 gr.	26.0 gr.	27.0 gr.	28.0 gr.	29.0 gr.	
H4895	24.5 gr.	25.3 gr.	26.1 gr.	27.0 gr.	27.8 gr.	28.6 gr.	
H335	23.9 gr.	25.0 gr.	26.1 gr.	27.1 gr.	28.2 gr.	29.3 gr.	
Accurate 2460	24.3 gr.	25.4 gr.	26.4 gr.	27.5 gr.	28.5 gr.		
Power Pro Varmint	24.7 gr.	25.9 gr.	27.2 gr.	28.4 gr.	29.6 gr.	30.8 gr.	31.4 gr.
VIHT N-530	23.4 gr.	24.4 gr.	25.3 gr.	26.3 gr.			
BL-C(2)	26.6 gr.	27.7 gr.	28.7 gr.	29.8 gr.	30.9 gr.	31.9 gr.	32.5 gr.

62 GRAIN BULLETS

SECTIONAL DENSITY: 0.177
DIAMETER: 0.224"**62 gr. ELD-VT™**
Item No. 22762
C.O.L.: 2.250"
G1 B.C.: 0.395
G7 B.C.: 0.199

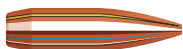
POWDER	VELOCITY (FPS - feet per second)					
	2900	3200	3250	3300	3350	3400
Benchmark	23.9 gr.	27.0 gr.	27.6 gr.			
H335	25.2 gr.	28.3 gr.	28.8 gr.			
X-TERMINATOR	25.3 gr.	28.4 gr.	28.9 gr.			
Accurate 2230	24.5 gr.	27.9 gr.	28.5 gr.	29.0 gr.	29.6 gr.	
TAC	25.5 gr.	28.3 gr.	28.7 gr.			
Power Pro Varmint	25.9 gr.	29.1 gr.	29.6 gr.	30.1 gr.	30.6 gr.	
H4895	24.6 gr.	27.4 gr.	27.8 gr.			
Accurate 2520	26.9 gr.	29.5 gr.	29.9 gr.	30.3 gr.	30.7 gr.	31.2 gr.
VARGET	26.6 gr.	29.2 gr.				
CFE 223	26.5 gr.	30.0 gr.	30.6 gr.	31.2 gr.	31.8 gr.	32.3 gr.
LEVERevolution	27.4 gr.	30.2 gr.	30.7 gr.	31.2 gr.	31.7 gr.	32.1 gr.

68 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.194
0.224"

22 ARC (Gas Gun)



68 gr. BTHP
Item No. 2278
C.O.L.: 2.250"
G1 B.C.: 0.355

POWDER	VELOCITY (FPS – feet per second)					
	2700	2800	2900	3000	3050	3100
Benchmark	20.9 gr.	22.8 gr.	24.7 gr.	26.6 gr.	27.5 gr.	
H335	23.5 gr.	24.5 gr.	25.5 gr.	26.4 gr.		
X-TERMINATOR	23.9 gr.	25.1 gr.	26.3 gr.	27.5 gr.	28.0 gr.	
Accurate 2230	22.7 gr.	23.8 gr.	25.0 gr.	26.1 gr.	26.7 gr.	27.2 gr.
IMR 8208 XBR	23.4 gr.	24.4 gr.	25.4 gr.	26.4 gr.	26.9 gr.	
TAC	23.2 gr.	24.4 gr.	25.5 gr.	26.7 gr.	27.3 gr.	27.8 gr.
Power Pro Varmint	24.5 gr.	25.5 gr.	26.6 gr.	27.7 gr.	28.2 gr.	28.8 gr.
H4895	23.2 gr.	24.1 gr.	25.1 gr.	26.0 gr.	26.5 gr.	
Vihtavuori N530	22.6 gr.	23.6 gr.	24.6 gr.	25.6 gr.		
CFE 223	25.4 gr.	26.5 gr.	27.6 gr.	28.7 gr.	29.3 gr.	29.9 gr.
LEVERevolution	25.8 gr.	26.8 gr.	27.7 gr.	28.6 gr.	29.0 gr.	29.5 gr.

75 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.214
0.224"



75 gr. BTHP
Item No. 2279
C.O.L.: 2.250"
G1 B.C.: 0.395



75 gr. ELD® Match
Item No. 22791
C.O.L.: 2.250"
G1 B.C.: 0.467

POWDER	VELOCITY (FPS – feet per second)					
	2700	2800	2900	3000	3050	3100
Benchmark	23.4 gr.	24.4 gr.	25.5 gr.			
IMR 8208 XBR	23.9 gr.	25.2 gr.	26.4 gr.			
H4895	23.5 gr.	24.6 gr.	25.7 gr.	26.8 gr.		
VIHT N-135	23.7 gr.	25.0 gr.	26.2 gr.			
TAC	24.3 gr.	25.4 gr.	26.5 gr.	27.6 gr.		
Accurate 2520	25.6 gr.	26.6 gr.	27.7 gr.	28.7 gr.	29.2 gr.	
VIHT N-140	25.2 gr.	26.4 gr.	27.5 gr.			
CFE 223	26.7 gr.	27.6 gr.	28.5 gr.	29.4 gr.	29.8 gr.	
LEVERevolution	25.9 gr.	27.0 gr.	28.1 gr.	29.1 gr.	29.6 gr.	30.2 gr.

■ INDICATES MAXIMUM LOAD — USE WITH CAUTION

Rifle Data

80 GRAIN BULLETS

SECTIONAL DENSITY:
DIAMETER:

0.228
0.224"

22 ARC (Gas Gun)



80 gr. ELD-X®
Item No. 22833
C.O.L.: 2.250"
G1 B.C.: 0.485



80 gr. ELD® Match
Item No. 22831
C.O.L.: 2.250"
G1 B.C.: 0.485

VELOCITY (FPS – feet per second)

POWDER	2500	2600	2700	2750	2800	2850	2900	2950
Benchmark	21.2 gr.	22.6 gr.	23.9 gr.	24.5 gr.				
X-TERMINATOR	22.3 gr.	23.3 gr.	24.4 gr.	24.9 gr.	25.4 gr.			
IMR 8208 XBR	22.0 gr.	23.1 gr.	24.2 gr.	24.8 gr.	25.3 gr.			
TAC	22.2 gr.	23.3 gr.	24.4 gr.	25.0 gr.	25.6 gr.	26.1 gr.		
H4895	21.5 gr.	22.7 gr.	23.8 gr.	24.4 gr.	25.0 gr.	25.5 gr.		
Vihtavuori N530	21.7 gr.	22.6 gr.	23.6 gr.	24.1 gr.				
Alliant RL-15	23.3 gr.	24.4 gr.	25.6 gr.	26.1 gr.	26.7 gr.	27.2 gr.		
VARGET	23.6 gr.	24.6 gr.	25.7 gr.	26.2 gr.	26.7 gr.			
CFE 223	24.0 gr.	25.2 gr.	26.4 gr.	27.0 gr.	27.7 gr.	28.3 gr.	28.9 gr.	29.5 gr.
Power Pro 2000 MR	24.8 gr.	25.8 gr.	26.9 gr.	27.4 gr.	27.9 gr.	28.4 gr.	29.0 gr.	
LEVERevolution	23.7 gr.	24.9 gr.	26.1 gr.	26.7 gr.	27.3 gr.	27.9 gr.	28.4 gr.	

88-90 GRAIN BULLETS

SECTIONAL DENSITY: 0.251–0.256
DIAMETER: 0.224"



88 gr. ELD® Match
Item No. 22834
C.O.L.: 2.250"
G1 B.C.: 0.545



90 gr. A-Tip® Match
Item No. 2286
C.O.L.: 2.250"
G1 B.C.: 0.585

VELOCITY (FPS – feet per second)

POWDER	2300	2400	2500	2600	2700	2750
H4895	20.4 gr.	21.5 gr.	22.7 gr.	23.9 gr.		
TAC	20.7 gr.	22.0 gr.	23.3 gr.	24.6 gr.		
Alliant RL-15	22.2 gr.	23.2 gr.	24.2 gr.	25.2 gr.	26.3 gr.	
Power Pro 2000 MR	24.0 gr.	24.7 gr.	25.4 gr.	26.1 gr.	26.9 gr.	27.2 gr.
VARGET	20.4 gr.	21.8 gr.	23.3 gr.	24.7 gr.		
Accurate 2520	21.9 gr.	23.1 gr.	24.2 gr.	25.3 gr.	26.5 gr.	27.0 gr.
StaBALL Match	22.1 gr.	23.4 gr.	24.6 gr.	25.9 gr.		
BL-C(2)	22.2 gr.	23.6 gr.	25.0 gr.	26.5 gr.	27.9 gr.	28.6 gr.
CFE 223	22.2 gr.	23.5 gr.	24.7 gr.	26.0 gr.	27.2 gr.	
LEVERevolution	22.5 gr.	23.7 gr.	24.9 gr.	26.0 gr.	27.2 gr.	27.8 gr.