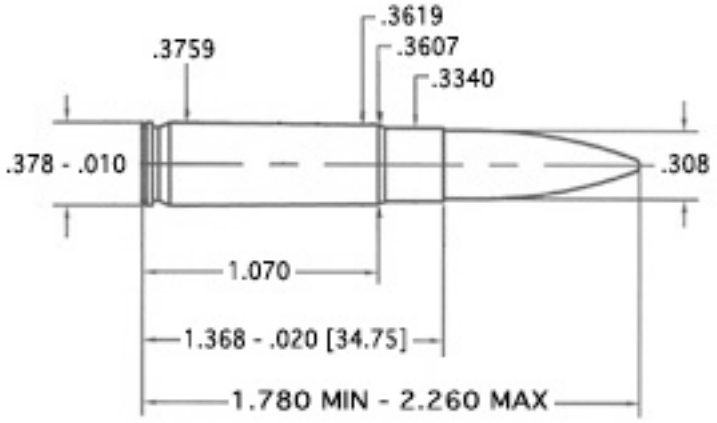
300 AAC Blackout (7.62 x 35 mm) (300 BLK)

Objectives of the 300 AAC Blackout cartridge include:

- Create a reliable, compact 30 caliber solution for the AR platform
- Utilize existing magazines while retaining their full capacity
- Create the optimal platform for sound and flash suppressed fire
- Create compatible full power ammunition matching the 7.62x39 ballistics. Accuracy easily bests that cartridge and rivals 5.56/.223
- Work with subsonic and full power ammunition without requiring adjustable gas blocks, particularly with careful powder selection
- Provide the ability to penetrate barriers with high-mass projectiles
- Provide all capabilities in a lightweight, durable, low recoiling package

The cartridge uses the same bolt, bolt carrier, receiver and standard magazines as for the AR-15/M-16/M-4. Previous cartridges proved the dimensions and performance, including the proprietary 300 Whisper®, the 300 Fireball and the 300-221.

Cartridge cases can be formed from existing .223/5.56 cases, by cutting on a bandsaw, trimming and full-length sizing. Read All NOTES below.



2.065” min OAL; 2.100 SD: 0.166

110 gr. Hornady V-Max BC: 0.290

type rifle	Powder	Start Grains	Velocity FPS	Press.	Max Load Grains	Velocity	Press.	unit
A	H110	18.8	2259	40600	20.0	2382	50600	C
A	WIN 296	18.8	2259	40600	20.0	2382	50600	C
A	IMR4227	17.6	1942	36500	**19.5**	2130	46700	C
B	4100-Enfrc	17.4	2182	-	19.3	2362	54472	P
A	Trail Boss	4.5	880	21900	6.3	1046	20200	C
	2400	14.1	-	-	17.1	-	-	

2.070” min OAL; 2.100 SD: 0.172

115 gr. Berger HP Flat Base BC: 0.296

type rifle	Powder	Start Grains	Velocity FPS	Press.	Max Load Grains	Velocity	Press.	unit
A	H110	18.8	2220	39300	20.0	2348	50800	C
A	Lil Gun	18.9	2235	32600	20.5	2393	39900	C
A	IMR4227	17.6	1934	36800	**19.5**	2110	47000	C
B	4100-Enfrc	17.2	2072	-	19.1	2246	54500	P
A	Trail Boss	4.5	894	23200	6.3	1044	19900	C
A	WIN 296	18.8	2220	39300	20.0	2348	50800	C

125 gr. Nosler BT, Speer TNT JHP BC: 0.366

2.075” min OAL; 2.080, 2.175, 2.210 SD: 0.188

type rifle	Powder	Start Grains	Velocity FPS	Press.	Max Load Grains	Velocity	Press.	unit
A	H110	16.7	2020	40200	17.8	2118	48800	C
A	Lil Gun	15.7	2045	35900	18.0	2185	40800	C
A	IMR4227	16.5	1818	38000	**17.7**	1965	49800	C
B	4100-Enfrc	16.5	2048	-	18.4	2224	54680	P
B	A5744	18.9	1984	-	21.0	2207	51979	P
B	A1680	19.4	1935	-	21.5	2126	39257	P

130 gr. Barnes T-TSX BC: 0.350

2.050” min OAL .030-.070 off lands SD: 0.196

type rifle	Powder	Start Grains	Velocity FPS	Press.	Max Load Grains	Velocity	Press.	unit
A	H110	17.9	2056	40400	19.0	2155	48400	C
A	Lil Gun	18.3	2073	37700	19.5	2213	41900	C
A	IMR4227	18.0	1902	41900	**19.2**	2008	47600	C
B	4100-Enfrc	14.4	1808	-	16.0	1998	54852	P
B	A5744	16.7	1718	-	18.5	1940	50574	P
B	A1680	17.0	1704	-	18.9	1923	44632	P

NOTE: Data Sources: Hodgdon, Western Powders, Lee Precision, Sierra. A few are from 300BLKTalk.com members. Rifle Types:
Type A : 16” AR Carbine Med/Std Gas 1-8” Twist, unknown Primer.
Type B : 16” AR Carbine Med/Std Gas 1-10” Twist, unknown Primer.
Type C : 9” AR-SBR Pistol Gas 1-8” Twist, unknown Primer.
Type D ; 20-22” AR Rifle Std Gas or Bolt Action, unknown Primer.

NOTE: Headspace at Lands or Just Off as per Barnes. Barnes does suggest starting 0.050” off the Lands to start.
Other COALs will be most Accurate Headspaced at the Lands in YOUR rifle. Anecdotal evidence of MagPul or Modified magazines work best regarding Feed/Extraction problems. Additional COALs provided based on experience of successful operation.

(7.62 x 35 mm) (300 BLK) 300 AAC Blackout

135 gr. Sierra Jacketed SP BC: 0.390
2.090" min OAL SD: 0.203

type rifle	Powder	Start Grains	Velocity FPS	Press.	Max Load Grains	Velocity	Press.	unit
A	H110	17.3	2010	43100	18.4	2109	51200	C
A	Lil Gun	16.5	2050	37800	18.0	2127	43200	C
A	IMR4227	17.1	1818	39700	18.2	1960	47600	C
B	4100-Enfrc	15.3	1850	-	17.0	2010	54715	P
B	A5744	17.8	1860	-	19.5	2050	54950	P
B	A1680	19.4	1895	-	21.5	2085	51650	P

150 gr. Sierra MK, Hornady IB BC: 0.417
2.095" min OAL; 2.135, 2.180 SD: 0.226

type rifle	Powder	Start Grains	Velocity FPS	Press.	Max Grains	Velocity	Press.	unit
A	H110	14.8	1775	38000	16.4	1910	47700	C
B	A5744	17.8	1862	-	19.5	2073	54951	P
A	IMR4227	16.5	1785	41800	17.8	1908	50200	C
B	4100-Enfrc	15.3	1851	-	17.0	2012	54635	P
B	A1680	19.4	1895	-	21.6	2086	51553	P
A	Lil Gun	15.0	1785	38000	16.2	1901	47700	C

2.195" min OAL; 2.125 SD: 0.248
165gr. Sierra SBT; 168gr. Hornady BTHP BC: 0.404

type rifle	Powder	Start Grains	Velocity FPS	Press.	Max Grains	Velocity	Press.	unit
B	A5744	16.7	1695	-	18.5	1895	54120	P
B	A1680	14.3	1300	-	19.7	1840	54268	P
	RE-7	16.6	1600		18.1	1750		
A	IMR4227	15.8	1672	41500	17.5	1650	47500	C
A	Lil Gun	13.8	1737	43300	14.8	1811	47400	C
A	H110	14.3	1659	38400	15.3	1749	47700	C

2.100" OAL; 2.17, 2.20 SD: 0.313
208 gr. Hornady A-Max BC: 0.648

type rifle	Powder	Start Grains	Vel. FPS	Press.	Max Grains	Velocity	Press.	unit
A	IMR4227	10.5	1010	-	10.5	1010	24500	C
B	A5744	12.5	1280	-	13.9	1455	53750	P
B				sub	11.0	1092	32850	P
A	A1680	12.6	1100	-	14.4	1458	50200	P
A				sub	10.9	1089	26589	P
	RE-7	10.5	930		11.0	1000		
A	H4198	10.0	861	-	11.0	1052	20200	C
A	H110	10.7	1100	-	13.2	1350	-	

220 gr. Sierra HPBT Match King BC: 0.629
2.190" OAL; 2.173 SD: 0.331

type	Powder	Start Grains	Velocity FPS	Press.	Max Grains	Velocity	Press.	unit
A	IMR4227	10.5	1014	-	10.5	1014	-	
A	A5744	10.7	1081	37267	11.4	1216	42598	C
B	A1680	10.9	1085	32296	12.0	1263	40075	P
A	H4198	11.5	1036	-	11.5	1036	-	
	RE-7	10.0			10.7			
A	H110	9.9	1050	-	9.9	1050		

240 gr. Sierra HPBT Match King BC: 0.711
2.185" OAL SD: 0.361

type	Powder	Start Grains	Vel. FPS	Press.	Max Grains	Velocity	Press.	unit
	IMR4227	10.2	-	-	10.2	-	-	
	A5744	9.8	-	-	10.2	-	-	
	A1680	10.5			10.5	-	-	
	H4198	9.2	-	-	10.0	-	-	
	RE-7	10.0	-	-	10.6	-	-	
	H110	9.5	-	-	9.5	-	-	

NOTE: Powders H110 and WIN 296 are Identical; Powders 4100 and Enforcer are Identical. Heavy 200 to 240 gr. bullets may suffer from feed/extraction problems using H110 and/or Lil Gun powders.
Units of Pressure: Copper Units indicated with a 'C', while PSI units are indicated with a 'P'.
Loads in **BOLD RED** indicate a Compressed Powder Charge.

NOTE: Loads highlighted in Yellow and Orange are not well documented and/or may have feed/extraction problems.

As with any Published Load Data, USE CAUTION, double-check; Load UP slowly for supersonic, and DOWN slowly for subsonic when experimenting with undocumented loads.