

Passion for Precision



Lapua Tactical Ammunition

2016 • **English**





Lapua is a pioneer in the development and manufacture of sniper ammunition. All our tactical ammunition is produced to the same match grade requirements as our target ammunition.

Not just according to toughest standards

Lapua quality is appropriately certified as well as approved by several special forces and armies worldwide. Long-term cooperation with different defence organizations helps us understand the special requirements of the military and other professional users. The goal is not to meet requirements but to exceed them.

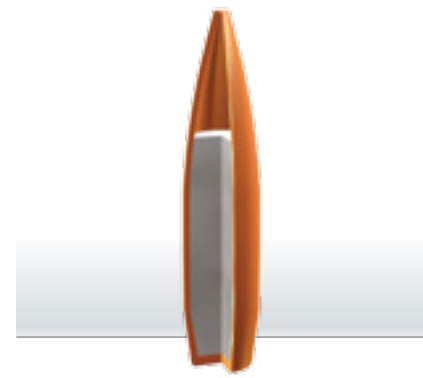
The most accurate long-range cartridges

The reliability and excellent accuracy of Lapua's special purpose cartridges are renowned worldwide. The secret behind the fame is simple: the tactical cartridges are manufactured with the same unconditional precision and care as our leading sport shooting products. Our paragon of quality and accuracy is the .338 Lapua Magnum, which has an effective range up to 1500 meters. Despite this, the .338 Lapua Magnum systems are about the same size and weight as the 7.62 mm systems. The .338 Lapua Magnum system is considerably lighter than the .50 caliber system.

BALLISTIC COEFFICIENT | .338 LAPUA MAGNUM

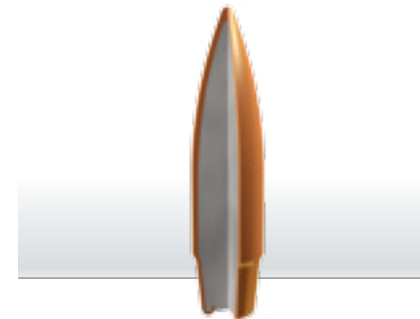
Caliber	Bullet type	Weight	Code	Ballistic coefficient G1 Velocity range [m/s] / [fps]					Ballistic coefficient G7
				> 830 > 2720	830-600 2720-1970	600-380 1970-1250	380-300 1250-980	<300 <980	
.338 Lapua Magnum	Naturalis	15,0 g / 231 gr	N508	0,380	0,358	0,368	0,391	0,323	0,191
	Scenar	16,2 g / 250 gr	GB488	0,646	0,632	0,588	0,613	0,708	0,320
	Lock Base	16,2 g / 250 gr	B408	0,621	0,589	0,527	0,545	0,592	0,294
	Armour Piercing	16,1 g / 248 gr	AP485	0,556	0,553	0,532	0,555	0,615	0,285
	Armour Piercing Incendiary	16,4 g / 253 gr	API526	0,566	0,563	0,543	0,565	0,629	0,290
	Scenar	19,4 g / 300 gr	GB528	0,745	0,756	0,726	0,748	0,560	0,368
	Lock Base	19,4 g / 300 gr	B557	0,795	0,765	0,690	0,520	0,520	0,383
	Armour Piercing	19,4 g / 300 gr	AP529	0,726	0,707	0,683	0,632	0,488	0,366

Tactical Ammunition bullets



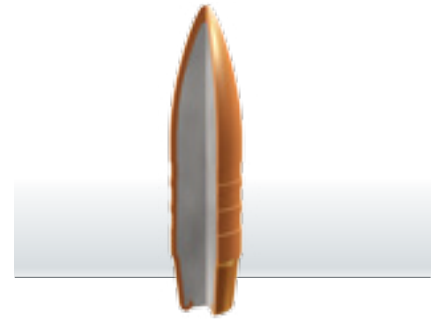
Scenar

Scenar is an extremely accurate open-tip match bullet. Boat tail base gives an outstanding ballistic coefficient. Lapua Scenar bullets give superb results at long ranges.



D46

Often copied, never equaled. The legendary D46 in caliber 7.62 is one by which all others of its type are measured. Manufactured to the strictest tolerances for concentricity, uniformity of shape and weight, it has shot its way to the record books since the 1930's all the way to the 21st century.



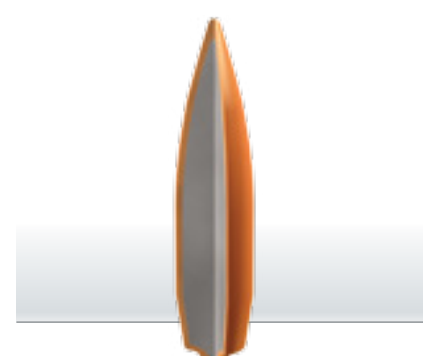
Subsonic

Lapua is the most widely used 7.62 mm caliber subsonic ammunition for military and law enforcement special operations. Designed especially for specialized short barrelled tactical rifles that have sound suppressors.



API

Designed to be used against vehicles and structures in situations when excellent penetration, incendiary and point of impact effect is needed. The API bullet is designed to meet current insensitive munitions philosophy.



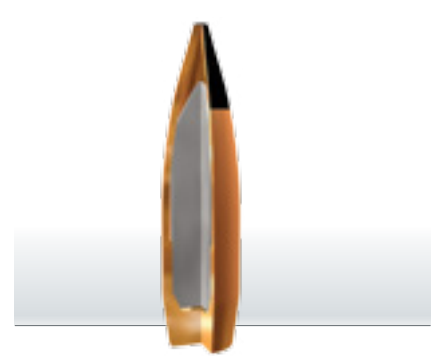
Lock Base

Unbeatable accuracy over extra long distances. Lock Base tail structure provides exceptional accuracy also at high pressures and high muzzle velocities. FMJBT configuration reduces drag and provides a flatter trajectory.



Solid (Naturalis)

Innovative bullet design enables controlled expansion with 100% retention weight. Bullet construction with valve design gives a maximal shock effect over the wide terminal velocity range (500-1000m/s). For operational purposes the solid frame construction enables straight bullet path through laminated glass without fragmentation.



AP

Lapua's AP is the most accurate armour piercing ammunition that is manufactured using proven match grade technology. It provides excellent penetration against hard targets. Now available also for 300gr family!

BALLISTIC COEFFICIENT | .308 WINCHESTER

Caliber	Bullet type	Weight	Code	Ballistic coefficient G1 Velocity range [m/s] / [fps]					Ballistic coefficient G7
				> 830 > 2720	830-600 2720-1970	600-380 1970-1250	380-300 1250-980	<300 <980	
.308 Winchester	Lock Base	9,72 g / 150 gr	B466	0,438	0,419	0,348	0,218	0,168	0,200
	Scenar	10,0 g / 155 gr	GB491	0,464	0,452	0,427	0,433	0,486	0,231
	Armour Piercing	10,7 g / 165 gr	AP492	0,440	0,420	0,378	0,308	0,535	0,210
	Lock Base	11,0 g / 170 gr	B476	0,502	0,471	0,401	0,284	0,270	0,228
				> 740 > 2430	740-550 2430-1800	550-380 1800-1250	380-300 1250-980	< 300 < 980	> 380 > 1250
	Scenar	10,85 g / 167 gr	GB422	0,445	0,431	0,393	0,361	0,487	0,219
	Naturalis	11,0 g / 170 gr	N558	0,354	0,354	0,354			0,177
	Scenar-L	11,3 g / 175 gr	GB550	0,490	0,483	0,468	0,390	0,370	0,247
	Scenar	12,0 g / 185 gr	GB432	0,485	0,472	0,439	0,457	0,657	0,242
	FMJBT	12,0 g / 185 gr	D46	0,508	0,496	0,446	0,449	0,575	0,250
				> 300 > 980	< 300 < 980				
	FMJBT	13,0 g / 200 gr	B416	0,515	0,413				



The original .338 Lapua Magnum



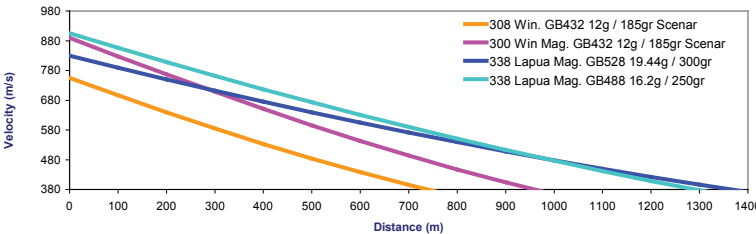
The .338 Lapua Magnum is currently the best choice for long range sniper applications. It extends effective range of true one man sniper rigs well beyond one kilometer.

.338 Lapua Magnum fills the gap between 7.62mm and .50 caliber sniper systems. The .338 Lapua Magnum sniper systems are currently employed by several armed forces throughout the world. The trajectories of Lapua bullets are tailored to match, so there is no need to change sight setup when changing the cartridge type. Some cartridges are hermetic, optional for all products. All .338 Lapua Magnum cartridges are packed in M2A1 steel cases.

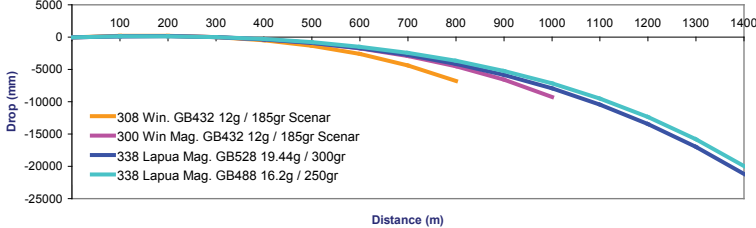
The Ball B408 features a 250gr (16,2g) Lock Base FMJBT bullet. The bullet maintains its velocity supersonic up to 1300 meters. The AP485 features a 248gr (16,1g) Armour Piercing bullet, trajectory tailored to match the Ball B408 path. The world's most accurate armour piercing ammunition penetrates 10mm armour steel plate after 800 meters.

The completion for the .338 Lapua Magnum is the 300gr family, including Scenar GB528. Lock Base B557 and Armour Piercing AP529. This 300gr (19,4g) Armour Piercing bullet gives extreme penetration capabilities at longer distances.

Velocity comparison



Trajectory comparison



The world's most accurate at extra-long distances. We are proud to say that the .338 Lapua Magnum is simply the world's best long-range precision cartridge – the original one from Lapua. It outperforms all .30 caliber cartridges at longer ranges, delivering exceptional performance up to 1500 m. The .338 Lapua Magnum comes factory loaded with a choice of world leading precision bullets.

.338 LAPUA MAGNUM | METRIC

Caliber	Product no.	Bullet type Weight Code	Velocity [m/s] Energy [J] Crosswind drift [mm] (Sidewind 4 m/s)							Trajectory [mm]							Test barrel length [mm]
										Rifle sighted in at	Impact point above or below line of sight (Scope 40 mm above bore line)						
			0 m	100 m	300 m	600 m	900 m	1200 m	1500 m		100 m	300 m	600 m	900 m	1200 m	1500 m	
.338 Lapua Mag. (8.6x70)	N318020	Naturalis	920	835	674	473	339			100	0	-374	-2730	-9176			680
		15,0 g / 231 gr	6348	5233	3410	1678	864			300	125	0	-1982	-8055			
		N508	0	21	212	1018	2703			600	455	991	0	-5081			
	4318017	Scenar	905	856	762	631	513	409	328	100	0	-336	-2165	-6238	-13721	-26585	680
		16,2 g / 250 gr	6634	5937	4703	3225	2131	1353	874	300	112	0	-1493	-5230	-12377	-24904	
		GB488	0	12	113	499	1247	2489	4392	600	361	747	0	-2990	-9390	-21168	
	4318033	Lock Base	900	850	751	611	484	372	310	100	0	-343	-2232	-6525	-14679	-29281	680
		16,2 g / 250 gr	6561	5846	4563	3023	1896	1118	778	300	114	0	-1545	-5495	-13305	-27561	
B408		0	12	120	539	1376	2819	5012	600	372	772	0	-3177	-10214	-23695		
4318035	Armour Piercing	905	848	741	595	469	363	308	100	0	-347	-2283	-6753	-15324	-30594	680	
	16,1 g / 248 gr	6593	5794	4417	2851	1769	1063	763	300	116	0	-1589	-5713	-13937	-28858		
	AP485	0	14	134	596	1507	3038	5275	600	380	795	0	-3329	-10758	-24881		
4318048	Armour Piercing	895	840	735	592	468	365	309	100	0	-355	-2326	-6855	-15488	-30775	680	
	Incendiary																
	16,4 g / 253 gr	6568	5782	4425	2876	1799	1091	783	300	118	0	-1616	-5790	-14067	-28996		
4318013	API526	0	14	133	593	1495	3006	5214	600	388	808	0	-3366	-10834	-24952	680	
	Scenar	830	789	712	605	508	422	349	100	0	-407	-2525	-7073	-15073	-28084		
	19,4 g / 300 gr	6696	6054	4925	3558	2510	1732	1186	300	136	0	-1711	-5852	-13444	-26046		
43M8011	GB528	0	12	110	472	1154	2245	3852	600	421	855	0	-3285	-10021	-21766	680	
	Lock Base	830	791	714	606	505	413	332	100	0	-406	-2516	-7057	-15103	-28422		
	19,4 g / 300 gr	6696	6063	4946	3558	2476	1656	1067	300	135	0	-1704	-5839	-13478	-26390		
43M8055	B557	0	11	105	458	1136	2247	3957	600	419	852	0	-3283	-10069	-22127	680	
	Armour Piercing	830	787	705	591	490	401	331	100	0	-413	-2583	-7291	-15737	-29738		
	19,4 g / 300 gr	6696	6027	4832	3395	2330	1567	1062	300	138	0	-1757	-6956	-14090	-27678		
	AP529	0	13	123	536	1185	2490	4010	600	431	878	0	-3431	-10587	-23297		

.338 LAPUA MAGNUM | IMPERIAL

Caliber	Product no.	Bullet type Weight Code	Velocity [fps] Energy [ft.-lbs.] Crosswind drift [in] (Sidewind 13 fps)							Trajectory [inch]							Test barrel length [inch]
			0 yd	100 yd	300 yd	600 yd	900 yd	1200 yd	1500 yd	Rifle sighted in at	Impact point above or below line of sight (Scope 1.6 in. above bore line)						
											100 yd	300 yd	600 yd	900 yd	1200 yd	1500 yd	
.338 Lapua Mag. (8.6x70)	N318020	Naturalis 15,0 g / 231 gr N508	3018 4681 0	2764 3925 1	2276 2663 7	1651 1401 32	1200 740 85			100 300 600	0 4 14	-11 0 30	-84 -61 0	-274 -240 -149			27
	4318017	Scenar 16,2 g / 250 gr GB488	2970 4896 0	2823 4424 0	2539 3579 4	2141 2545 16	1779 1756 40	1453 1172 78	1171 761 136	100 300 600	0 3 11	-10 0 24	-68 -47 0	-194 -163 -92	-420 -379 -285	-797 -746 -628	27
	4318033	Lock Base 16,2 g / 250 gr B408	2953 4840 0	2802 4356 0	2504 3479 4	2080 2401 17	1690 1586 43	1338 994 87	1068 633 156	100 300 600	0 4 12	-11 0 24	-70 -49 0	-202 -171 -98	-446 -404 -306	-868 -815 -693	27
	4318035	Armour Piercing 16,1 g / 248 gr AP485	2970 4866 0	2800 4324 0	2475 3379 4	2030 2274 19	1639 1482 48	1302 935 95	1061 621 166	100 300 600	0 4 12	-11 0 25	-71 -50 0	-209 -177 -102	-464 -422 -322	-907 -854 -729	27
	4318048	Armour Piercing Incendiary 16,4 g / 253 gr API526	2935 4840 0	2769 4308 0	2452 3377 4	2017 2287 19	1634 1501 47	1304 955 94	1064 636 164	100 300 600	0 4 12	-11 0 25	-73 -51 0	-212 -180 -103	-471 -427 -325	-916 -862 -734	27
	4318013	Scenar 19,4 g / 300 gr GB528	2723 4938 0	2600 4504 0	2367 3731 4	2042 2778 15	1745 2029 37	1477 1453 71	1242 1027 121	100 300 600	0 4 13	-13 0 27	-80 -54 0	-222 -184 -103	-468 -417 -309	-858 -795 -659	27
	43M8011	Lock Base 19,4 g / 300 gr B557	2723 4938 0	2605 4510 0	2374 3748 3	2046 2783 15	1740 2011 37	1456 1409 71	1193 946 124	100 300 600	0 4 13	-13 0 27	-79 -54 0	-222 -183 -102	-468 -418 -309	-864 -801 -665	27
	43M8055	Armour Piercing 19,4 g / 300 gr AP529	2723 4938 0	2595 4486 0	2347 3669 4	2000 2664 16	1688 1897 40	1411 1327 78	1171 914 133	100 300 600	0 4 14	-13 0 28	-81 -56 0	-228 -190 -107	-486 -435 -324	-903 -839 -700	27

AP and API ammunition are available for military and law enforcement use only.





World's standard Lapua .308 Winchester



.308 Win. 11 g FMJBT SEMI-AUTO cartridge

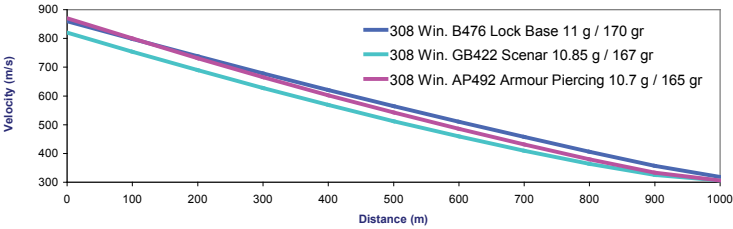
Lapua's latest tactical cartridge is developed for short barreled semi-auto rifles. This cartridge is designed for optimum ballistic performance in shorter barrels (12"-20"). Lapua tailored the powder type and charge weight to reduce muzzle blast and flash while still delivering outstanding accuracy and velocity. From a standard 16" barrel, muzzle velocity should be 754 m/s and routinely capable of shooting groups under 1 MOA at 300 meters (<87mm / 300m) with quality rifles. This new tactical cartridge works flawlessly with DMR-type semi-auto rifles.

The .308 Winchester (7.62x51mm NATO) is still by far the most popular sniping caliber. It has a mild recoil, good terminal ballistic and a vast selection of different bullets. With an effective range up to 800 meters (875yds) it is definitely an all-around sniping caliber that is used by the majority of Law Enforcement and military sniping units.

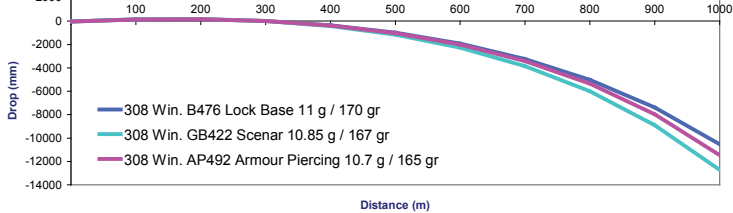
Lapua has one of the world's best match grade bullet selection in this caliber. It covers several types of Ball, Open-Tip, Armour Piercing, Solid bullets and Subsonic round.

Starting with the legendary D46 FMJBT ammunition several decades ago and still in operation, Lapua's .308 Win. ammunition is used by several military forces and government agencies throughout the world. Today, Lapua .308 Win. ammunition is recognized not only for its accuracy, but also for the outstanding performance of the closely matched ballistic trajectories between the different types of tactical bullets.

Velocity comparison



Trajectory comparison



.308 WINCHESTER | METRIC

Caliber	Product no.	Bullet type Weight Code	Velocity [m/s] Energy [J] Crosswind drift [mm] (Sidewind 4 m/s)							Trajectory [mm]							Test barrel length [mm]
										Rifle sighted in at	Impact point above or below line of sight (Scope 40 mm above bore line)						
			0	100	200	300	600	800	1000		100	200	300	600	800	1000	
.308 Win. (7.62x51)	4317538	Lock Base 9,72 g / 150 gr B466	850 3511 0	781 2961 20	713 2473 83	647 2037 196	461 1033 951	346 581 1982		100 300 600	0 145 502	-121 169 884	-434 0 1073	-3013 -2146 0	-6946 -5790 -2928		660
	4317073	Scenar 10,0 g / 155 gr GB491	860 3698 0	794 3151 18	730 2663 76	669 2235 180	503 1264 831	408 833 1640	331 548 2857	100 300 600	0 138 469	-115 161 822	-414 0 992	-2813 -1984 0	-6265 -5160 -2515	-12106 -10726 -7418	660
	4317598	Armour Piercing 10,7 g / 165 gr AP492	870 4163 0	800 3519 19	731 2941 80	665 2432 189	486 1296 898	380 793 1811		100 300 600	0 136 473	-113 160 833	-409 0 1009	-2837 -2019 0	-6444 -5353 -2661		740
	4317515	Scenar 10,85 g / 167 gr GB422	820 3648 0	754 3083 20	690 2579 85	628 2138 200	459 1144 946	364 717 1899		100 300 600	0 157 535	-132 181 938	-470 0 1135	-3212 -2271 0	-7258 -6003 -2975		660
	4317596 HPS	Lock Base 11,0 g / 170 gr B476	840 3881 0	779 3337 18	718 2839 77	659 2392 182	493 1338 855	390 836 1724		100 300 600	0 145 487	-122 168 852	-435 0 1027	-2924 -2054 0	-6522 -5362 -2623		660
	43M7600 SEMI-AUTO	Lock Base 11,0 g / 170 gr B476	754 3127 0	694 2649 0	636 2223 49	579 1846 155	420 969 925	326 586 1990		100 300 600	0 191 639	-164 217 1114	-572 0 1345	-3835 -2691 0	-8683 -7157 -3569		400
	4317520	Scenar-L 11,3 g / 175 gr GB550	793 3553 0	733 3039 19	675 2577 80	619 2166 190	468 1239 879	384 833 1720		100 300 600	0 167 555	-143 191 968	-501 0 1165	-3332 -2329 0	-7362 -6025 -2919		660
	4317523	Scenar 12,0 g / 185 gr GB432	755 3420 0	697 2911 21	640 2454 88	585 2052 207	438 1152 963	356 761 1898		100 300 600	0 188 622	-162 214 1083	-563 0 1304	-3735 -2609 0	-8288 -6787 -3308		660
	N317105 NEW!	Naturalis 11,0 g / 170 gr N558	800 3520 0	717 2829 27	639 2243 115	566 1762 276				100 300	0 181	-151 211	-543 0				660
	4317590	FMJBT 12,0 g / 185 gr D46	760 3466 0	704 2974 20	650 2533 82	597 2141 193	452 1228 895	369 815 1772		100 300 600	0 182 598	-157 207 1039	-547 0 1247	-3588 -2495 0	-7908 -6450 -3123		660
	4317340 Subsonic	FMJBT 13,0 g / 200 gr B416	325 687 0	309 620 33	296 568 127	284 524 277				100 300 600	0 1033	-988 1077	-3097 0				410 ¹⁾

¹⁾ NOTE: Required twist is 1 turn in 250 mm or faster. Maximum barrel length 450 mm.

.308 WINCHESTER | IMPERIAL

Caliber	Product no.	Bullet type Weight Code	Velocity [fps] Energy [ft.-lbs.] Crosswind drift [in] (Sidewind 13 fps)							Trajectory [Inch]							Test barrel length [inch]
			0 yd	100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	Rifle sighted in at	Impact point above or below line of sight (Scope 1.6 in above bore line)						
											100 yd	200 yd	300 yd	600 yd	800 yd	1000 yd	
.308 Win. (7.62x51)	4317538	Lock Base 9,72 g / 150 gr B466	2790	2581	2379	2180	1615	1260		100	0	-4	-13	-93	-210		26
			2592	2219	1884	1583	868	529		300	4	5	0	-66	-174		
			0	1	3	6	30	61		600	15	27	33	0	-86		
	4317073	Scenar 10,0 g / 155 gr GB491	2820	2621	2428	2243	1735	1439	1182	100	0	-3	-13	-87	-192	-365	26
			2725	2354	2020	1723	1031	710	478	300	4	5	0	-62	-158	-323	
			0	1	2	6	26	52	89	600	15	26	31	0	-76	-220	
	4317598	Armour Piercing 10,7 g / 165 gr AP492	2850	2640	2433	2233	1684	1358		100	0	-3	-13	-88	-197		29
			2975	2552	2168	1826	1038	675		300	4	5	0	-63	-163		
			0	1	3	6	29	57		600	15	26	31	0	-80		
	4317515	Scenar 10,85 g / 167 gr GB422	2690	2491	2297	2110	1595	1295		100	0	-4	-15	-99	-221		26
			2690	2307	1962	1656	945	623		300	5	6	0	-70	-183		
0			1	3	6	30	59		600	17	29	35	0	-89			
4317596 HPS	Lock Base 11,0 g / 170 gr B476	2756	2573	2391	2213	1708	1393		100	0	-4	-13	-91	-200		26	
		2867	2498	2157	1848	1101	733		300	4	5	0	-64	-164			
		0	1	2	6	27	54		600	15	27	32	0	-79			
43M7600 SEMI-AUTO	Lock Base 11,0 g / 170 gr B476	2474	2294	2118	1948	1464	1164		100	0	-6	-19	-122	-269		16	
		2307	1983	1691	1430	808	511		300	6	7	0	-84	-218			
		0	0	2	5	29	61		600	20	35	42	0	-106			
4317520	Scenar-L 11,3 g / 175 gr GB550	2602	2423	2248	2078	1615	1350		100	0	-4	-16	-104	-226		26	
		2621	2273	1957	1672	1010	705		300	5	6	0	-73	-185			
		0	1	3	6	28	54		600	17	30	36	0	-88			
4317523	Scenar 12,0 g / 185 gr GB432	2475	2299	2128	1962	1512	1254		100	0	-5	-18	-116	-255		26	
		2518	2174	1861	1583	940	647		300	6	7	0	-81	-208			
		0	1	3	7	31	60		600	19	34	41	0	-100			
N317105 NEW!	Naturalis 11,0 g / 170 gr N558	2625	2376	2138	1916				100	0	-5	-17				26	
		2596	2128	1723	1383				300	-6	1	0					
		0	1	4	9												
4317590	FMJBT 12,0 g / 185 gr D46	2490	2322	2159	2000	1558	1296		100	0	-5	-17	-112	-244		26	
		2549	2216	1916	1645	998	690		300	6	7	0	-78	-199			
		0	1	3	6	28	56		600	19	33	39	0	-95			
4317340 Subsonic	FMJBT 13,0 g / 200 gr B416	1066	1017	977	941				100	0	-32	-100				16 ¹⁾	
		506	461	425	394				300	33	35	0					
		0	1	4	9				600								

¹⁾ NOTE: Required twist is 1 turn in 10" or faster. Maximum barrel length 18".

AP and API ammunition are available for military and law enforcement use only.

Part of **Nammø** Group

P.O. Box 5
FI-62101 Lapua
Finland
Phone +358 10 5233 800
Fax +358 6 431 0244
info@lapua.com
www.lapua.com