

.338 Lapua Mag. SWISS P API

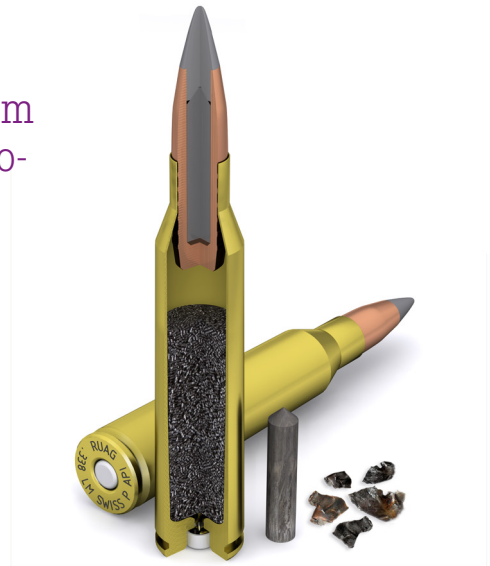
17.1 g / 263 gr

The most accurate Armour Piercing Incendiary round

The tungsten carbide core provides maximum penetration power, while the titanium tip provides incendiary marking

Coordinated ballistics with SWISS P Ball, Target, Styx Action and Armour Piercing rounds

RUAG SWISS 
The Sniper's Choice



Application

The tungsten carbide core is made from one of the hardest metals known to man, and resists deformation even when striking armor. Because the core stays intact during penetration it transfers extremely effective residual energy to targets that would ordinarily be shielded by light armor.

When the titanium tip strikes the target the energy transfer converts it into brightly glowing sparks, easily marking point of impact for the spotter. Since this cartridge contains no incendiary chemicals, it is not subject to the restrictive packaging, handling, and transportation issues suffered with standard API Cartridges.

Using only high quality raw materials and producing within tight tolerances ensures outstanding accuracy. Due to tight production tolerances, constant ballistic values are guaranteed. Strict quality controls lead to identical ballistics regardless of the batch.

Cartridge

8.6x70 / .338 Lapua Mag.

projectile	API, 17.1 g / 263 gr	
projectile material	CuZn - Tungstencarbide - Titanium	
ballistic coefficient G1	0.6785 (ICAO)	
primer / propellant	SINOXID / double base powder	
case material	CuZn - alloy	
cartridge weight	44.4 g	

Performance

term of reference	C.I.P.	
mean chamber pressure	max. 4 200 bar	(21°C)
muzzle velocity	847 m/s (2 779 fps)	650 mm barrel
muzzle energy	6 076 J	
accuracy at 300 m	$S_a \leq 25$ mm	

Packaging

20 rds/cardboard box, 200 rds/cardboard box

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Ballistic Coefficients	847 m/s	340 m/s	200 m/s
Drag Coefficient	0.2596	0.3380	0.1347
Ballistic Coefficient G1	0.6785	0.4631	0.4945
Ballistic Coefficient G7	0.3391	0.3665	0.2891

Ballistic Coefficients	2779 fps	1115 fps	656 fps
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Ballistic Coefficient G1	0.6785	0.4631	0.4945
Ballistic Coefficient G7	0.3391	0.3665	0.2891

Trajectory	0 m	100 m	300 m	500 m	600 m	700 m	800 m	900 m	1000 m	1100 m	1200 m	1300 m	1400 m
Velocity [m/s]	847	801	713	630	589	550	512	475	440	406	374	346	324
Energy [J]	6'076	5'434	4'306	3'362	2'938	2'562	2'220	1'911	1'640	1'396	1'185	1'014	889
Time of flight [ms]	0	121.3832	385.974	684.4652	848.6647	1024.328	1212.765	1415.457	1634.156	1870.894	2127.75	2406.322	2706.08
Wind drift [cm]	0	2	20	60	89	126	172	227	293	372	464	572	694

Trajectory	0 yds	100 yds	300 yds	500 yds	600 yds	700 yds	800 yds	900 yds	1000 yds	1100 yds	1200 yds	1300 yds	1400 yds
Velocity [fps]	2779	2641	2375	2124	1999	1880	1764	1650	1542	1436	1334	1242	1158
Energy [J]	6076	5487	4440	3549	3145	2782	2448	2141	1870	1623	1401	1214	1054
Time of flight [ms]	0	111	351	618	765	920	1086	1263	1451	1654	1872	2099	2341
Wind drift [inch]	0	0.55	6.85	19.91	29.01	40.85	55.28	72.60	93.15	117.26	145.42	178.05	216.46

Test barrel length: 650 mm / Twist rate: 10" / Crosswind velocity: 5 m/s Reference Conditions: 15 °C/59 °F / 1013.25 hPa / 0% humidity / 0 m/ft above sea level

Trajectory	cm	100 m	300 m	500 m	600 m	700 m	800 m	900 m	1000 m	1100 m	1200 m	1300 m	1400 m
Rifle zeroed at	100 m	x	-46	-166	-261	-383	-536	-726	-956	-1236	-1572	-1976	-2458
	300 m	16	x	-88	-167	-273	-411	-584	-799	-1063	-1384	-1772	-2238
	500 m	33	54	x	-62	-151	-271	-427	-625	-871	-1174	-1545	-1994
	600 m	44	85	52	x	-78	-187	-333	-520	-756	-1048	-1408	-1847
	700 m	54	117	104	63	x	-104	-239	-415	-641	-923	-1272	-1700
	800 m	66	153	165	137	81	x	-129	-293	-506	-776	-1113	-1529
	900 m	80	195	235	220	179	106	x	-153	-352	-609	-932	-1334
	1000 m	96	242	313	315	289	232	138	x	-180	-420	-728	-1114
	1100 m	112	289	392	409	399	357	280	161	x	-232	-523	-894
	1200 m	131	347	488	524	533	511	453	353	204	x	-274	-625

Trajectory	inch	100 yds	300 yds	500 yds	600 yds	700 yds	800 yds	900 yds	1000 yds	1100 yds	1200 yds	1300 yds	1400 yds
Rifle zeroed at	100 yds	x	-14.19	-52.54	-82.45	-120.74	-168.49	-226.96	-297.68	-382.38	-483.28	-602.80	-744.04
	300 yds	5.29	x	-27.40	-52.29	-85.56	-128.28	-181.72	-247.41	-327.09	-422.92	-537.46	-673.68
	500 yds	10.95	17.86	x	-18.36	-45.97	-83.04	-130.83	-190.86	-264.89	-355.07	-463.91	-594.47
	600 yds	14.10	27.28	16.59	x	-23.98	-57.90	-102.55	-159.41	-230.34	-317.37	-423.07	-550.44
	700 yds	17.24	36.71	32.30	19.34	x	-32.77	-74.28	-128.00	-195.78	-279.63	-382.19	-506.47
	800 yds	21.64	49.90	54.29	45.73	28.80	x	-34.69	-84.02	-147.37	-226.86	-325.02	-444.85
	900 yds	25.41	61.21	73.14	68.35	55.19	32.58	x	-46.32	-105.90	-181.62	-276.01	-392.08
	1000 yds	29.81	74.41	95.14	94.74	85.98	67.77	38.82	x	-57.52	-128.84	-218.80	-330.46
	1100 yds	34.84	89.51	120.27	124.90	121.17	107.98	84.07	47.93	x	-68.52	-153.45	-260.10
	1200 yds	40.50	106.47	148.55	158.83	160.75	153.22	134.96	104.48	59.98	x	-79.94	-180.89

Maximum range: 6467 m / 7072 yds

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Diagram of different zero ranges

