

# .308 Win. SWISS P Armour Piercing

## 12.7 g / 196 gr

The most accurate Armour Piercing round

Extended barrel durability due to patented projectile design

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

Militarised and optimised for automatic weapons



**RUAG SWISS**   
The Sniper's Choice

### Application

The tungsten carbide core is much harder and more ductile than most targets which makes it unstoppable for light armour. Because the core does not break apart during penetration it transfers outstanding residual energy to the target.

Using only high quality raw materials and producing within tight tolerances ensure an identical point of impact from batch to batch.

A wide range of special purpose bullets provide the desired terminal effect on hard and soft targets on every mission. All .308 Win. SWISS P rounds have an identical point of impact at 100 m which allows the shooter to instantly change the bullet type.

### Cartridge

**7.62x51 / .308 Win.**

projectile	AP, 12.7 g / 196 gr
projectile material	tombac jacket, tungsten carbide and lead cores
ballistic coefficient G1	0.6517 (ICAO)
primer / propellant	SINOXID / double base powder
case material	CuZn - alloy
cartridge weight	26.7 g

### Performance

term of reference	C.I.P.
mean chamber pressure	max. 4 150 bar (21°C)
temperature range	-54°C to +52°C
muzzle velocity	790 m/s (2 592 fps) 650 mm barrel
muzzle energy	3 963 J
accuracy at 300 m	$s_a \leq 35$ mm

### Packaging

20 rds/cardboard box, 200 rds/cardboard box

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Ballistic Coefficients	790 m/s	340 m/s	200 m/s
Drag Coefficient	0.2731	0.3597	0.1492
Ballistic Coefficient G1	0.6517	0.3788	0.4785
Ballistic Coefficient G7	0.3371	0.3027	0.2774

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Ballistic Coefficient G7	0.3371	0.3027	0.2774

Trajectory	0 m	100 m	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m	1100 m	1200 m
Velocity [m/s]	790	743	696	650	605	562	520	479	441	404	370	339	319
Energy [J]	3'963	3'506	3'076	2'683	2'324	2'006	1'717	1'457	1'235	1'036	869	730	646
Time of flight [ms]	0	131	270	418	578	749	934	1135	1352	1589	1848	2132	2437
Wind drift [cm]	0	2	8	19	36	58	87	124	170	225	291	370	459

  

Trajectory	0 yds	100 yds	200 yds	300 yds	400 yds	500 yds	600 yds	700 yds	800 yds	900 yds	1000 yds	1100 yds	1200 yds
Velocity [fps]	2592	2438	2296	2156	2019	1888	1760	1633	1516	1401	1295	1197	1135
Energy [J]	3963	3505	3109	2742	2405	2103	1827	1574	1355	1157	989	846	760
Time of flight [ms]	0	119	247	383	530	687	857	1043	1241	1459	1692	1938	2148
Wind drift [inch]	0	0.71	2.82	6.47	11.84	19.11	28.50	40.24	54.59	71.86	92.37	116.49	144.56

Test barrel length: 650 mm / Twist rate: 12" / 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	200 m	300 m	400 m	500 m	600 m	700 m	800 m	900 m	1000 m	1100 m	1200 m
Rifle zeroed at	100 m	x	-15	-48	-99	-174	-273	-402	-566	-769	-1019	-1325	-1697
	200 m	8	x	-24	-68	-134	-226	-347	-503	-698	-941	-1238	-1602
	300 m	16	16	x	-37	-95	-179	-292	-440	-628	-862	-1152	-1508
	400 m	25	35	28	x	-47	-121	-225	-363	-541	-766	-1046	-1393
	500 m	35	55	57	40	x	-64	-158	-286	-455	-670	-941	-1278
	600 m	45	76	89	82	53	x	-85	-203	-361	-565	-826	-1152
	700 m	58	100	125	131	114	72	x	-105	-251	-443	-691	-1005
	800 m	71	126	164	183	180	151	92	x	-133	-312	-547	-848
	900 m	86	156	209	243	254	240	196	118	x	-164	-384	-670
	1000 m	102	189	259	309	337	339	312	251	150	x	-202	-471

Trajectory	inch	100 yds	200 yds	300 yds	400 yds	500 yds	600 yds	700 yds	800 yds	900 yds	1000 yds	1100 yds	1200 yds
Rifle zeroed at	100 yds	x	-5.14	-15.72	-32.51	-56.29	-87.99	-128.68	-179.65	-242.43	-318.86	-411.08	-521.77
	200 yds	2.42	x	-8.18	-22.46	-43.72	-72.91	-111.08	-159.54	-219.81	-293.73	-383.44	-491.62
	300 yds	5.25	5.55	x	-11.15	-29.59	-55.95	-91.29	-136.92	-194.37	-265.46	-352.35	-457.65
	400 yds	8.08	11.20	8.79	x	-15.45	-38.98	-71.50	-114.30	-168.92	-237.19	-321.25	-423.73
	500 yds	11.22	17.49	18.21	12.73	x	-20.13	-49.51	-89.17	-140.65	-205.74	-286.66	-386.04
	600 yds	14.68	24.40	28.58	26.56	17.54	x	-25.32	-61.53	-109.55	-171.19	-248.65	-344.58
	700 yds	18.45	31.94	39.90	41.64	36.39	23.22	x	-31.37	-75.62	-133.49	-207.18	-299.30
	800 yds	22.23	39.48	51.21	56.72	55.24	45.84	27.46	x	-41.69	-95.79	-165.72	-254.07
	900 yds	26.94	48.90	65.35	75.57	78.80	74.12	60.44	36.49	x	-48.67	-113.89	-197.53
	1000 yds	31.65	58.33	79.49	94.42	102.36	102.39	93.42	74.19	43.13	x	-62.05	-140.95

Maximum range: 5916 m / 6470 yds

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## Diagram of different zero ranges

