

.223 Rem. SWISS P Ball

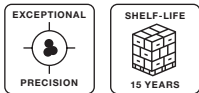
4.1 g / 63 gr

Most accurate FMJ round

Enhanced penetration due to tombac plated steel jacketed bullet

Preserves the weapon's service life

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



Cartridge		5.56x45 / .223 Rem.
projectile	FMJ, 4.1 g / 63 gr	
projectile material	tombac plated steel jacket, lead core	
ballistic coefficient G1	0.3678 (ICAO)	
primer / propellant	SINOXID / double base powder	
case material	CuZn - alloy	
cartridge weight	12.2 g	
Performance		
term of reference	C.I.P.	
mean chamber pressure + 3s	max. 4 200 bar	(21°C)
muzzle velocity	910 m/s (2 986 fps)	600 mm barrel
muzzle energy	1 698 J	
accuracy at 300 m	$S_H ; S_V \leq 50$ mm	
Packaging		
standard cardboard box	10rds/clip, 50rds/cardboard box, 200rds/SLD-PVC, 1000rds/ cardboard box, 50000rds EU pallet	

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Ballistic Coefficients	910 m/s	340 m/s	200 m/s
Drag Coefficient	0.2792	0.5186	0.4506
Ballistic Coefficient G1	0.3678	0.1748	0.0851
Ballistic Coefficient G7	0.1783	0.1383	0.0500

Ballistic Coefficients	2986 fps	1115 fps	656 fps
Drag Coefficient	0.2792	0.5186	0.4506
Ballistic Coefficient G1	0.3678	0.1748	0.0851
Ballistic Coefficient G7	0.1783	0.1383	0.0500

Trajectory	0 m	50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m	550 m	600 m
Velocity [m/s]	910	864	817	770	724	678	633	588	545	503	462	423	386
Energy [J]	1698	1529	1368	1216	1074	942	821	710	609	519	438	367	305
Time of flight [ms]	0	56	116	179	246	317	394	476	564	659	763	876	1000
Wind drift [mm]	0.00	0.72	3.01	7.05	13.05	21.25	31.93	45.41	62.05	82.28	106.60	135.58	169.94

Trajectory	0 yds	50 yds	100 yds	150 yds	200 yds	250 yds	300 yds	350 yds	400 yds	450 yds	500 yds	550 yds	600 yds
Velocity [fps]	2986	2846	2706	2566	2427	2288	2152	2017	1885	1756	1631	1510	1392
Energy [J]	1698	1543	1395	1254	1121	997	882	775	677	588	507	434	369
Time of flight [ms]	0	52	106	162	223	286	354	426	503	585	674	769	873
Wind drift [inch]	0	0.26	1.03	2.37	4.33	6.99	10.41	14.70	19.94	26.26	33.77	42.63	53.01

Test barrel length: 600 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	50 m	100 m	150 m	200 m	250 m	300 m	350 m	400 m	450 m	500 m	550 m	600 m
Rifle zeroed at	50 m	x	-2	-7	-15	-26	-41	-61	-85	-115	-153	-199	-256
	100 m	1	x	-4	-10	-20	-34	-52	-75	-104	-141	-186	-241
	150 m	2	3	x	-5	-14	-27	-43	-65	-93	-129	-172	-227
	200 m	4	5	4	x	-7	-18	-34	-54	-81	-115	-157	-210
	250 m	5	8	8	6	x	-10	-24	-43	-68	-101	-142	-193
	300 m	7	11	13	12	8	x	-12	-30	-53	-84	-123	-173
	350 m	9	15	19	19	17	11	x	-16	-38	-67	-104	-152
	400 m	11	19	25	27	27	23	14	x	-20	-47	-82	-128
	450 m	13	23	31	36	38	36	29	18	x	-25	-58	-102
	500 m	15	28	39	46	50	50	46	37	22	x	-31	-73

Trajectory	inch	50 yds	100 yds	150 yds	200 yds	250 yds	300 yds	350 yds	400 yds	450 yds	500 yds	550 yds	600 yds
Rifle zeroed at	50 yds	x	0.78	-2.36	-4.88	-8.45	-13.2	-19.28	-26.91	-36.29	-47.73	-61.58	-78.30
	100 yds	0.37	x	-1.23	-3.37	-6.57	-10.94	-16.64	-23.89	-32.89	-43.96	-57.44	-73.78
	150 yds	0.78	0.79	x	-1.74	-4.52	-8.49	-13.78	-20.62	-29.22	-39.88	-52.95	-68.87
	200 yds	1.22	1.67	1.31	x	-2.32	-5.85	-10.70	-17.10	-25.26	-35.48	-48.11	-63.60
	250 yds	1.69	2.62	2.72	1.91	x	-3.02	-7.40	-13.33	-21.02	-30.77	-42.92	-57.94
	300 yds	2.19	3.62	4.23	3.92	2.55	x	-3.88	-9.31	-16.49	-25.74	-37.39	-51.91
	350 yds	2.76	4.75	5.93	6.18	5.37	3.39	x	-4.79	-11.40	-20.09	-31.17	-45.12
	400 yds	3.35	5.95	7.72	8.57	8.36	6.97	4.26	x	-6.03	-14.12	-24.61	-37.96
	450 yds	4.02	7.27	9.70	11.21	11.66	10.93	8.88	5.27	x	-7.52	-17.35	-30.04
	500 yds	4.77	8.77	11.96	14.22	15.43	15.45	14.15	11.30	6.69	x	-9.06	-21.00

Maximum range: 2055 m / 2248 yds

Remark: Technical specification and numerical data are given as an indication only and are of no contractual nature.

Diagram of different zero ranges

