

.223 Rem. SWISS P Target

5.0 g / 77 gr

Extended supersonic range ensures improved accuracy and greater energy on target

Preserves the weapon's service life

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



Cartridge		5.56x45 / .223 Rem.
projectile	HPBT, 5.0 g / 77 gr	
projectile material	tombac jacket, lead core	
ballistic coefficient C1	0.3963 (ICAO)	
primer / propellant	SINOXID / double base powder	
case material	CuZn - alloy	
cartridge weight	13.1 g	
Performance		
term of reference	C.I.P.	
mean case mouth pressure	max. 4 300 bar	(21°C)
muzzle velocity	820 m/s (2 690 fps)	600 mm barrel
muzzle energy	1 681 J	
accuracy at 300 m	$s_a \leq 20$ mm	
Packaging		
standard cardboard box	10rds/clip, 50rds/ cardboard box, 1000rds / M2A1 metal box, 60000rds EU pallet	

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04.2020

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Ballistic Coefficients	820 m/s	340 m/s	200 m/s
Drag Coefficient	0.3188	0.3390	0.1740
Ballistic Coefficient G1	0.3963	0.3261	0.2704
Ballistic Coefficient G7	0.1982	0.2581	0.1580

Ballistic Coefficients	2690 fps	1115 fps	656 fps
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Ballistic Coefficient G7	0.1982	0.2581	0.1580

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]	820	782	744	708	673	639	607	575	544	514	485	458	432
Energy [J]	1'681	1'527	1'385	1'254	1'134	1'022	920	826	740	661	589	524	466
Time of flight [ms]	0	63	128	197	269	346	426	511	600	695	795	901	1013
Wind drift [cm]	0.00	0.74	3.02	6.96	12.67	20.27	29.91	41.75	55.97	72.76	92.30	114.83	140.58

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]	2690	2575	2463	2354	2248	2145	2045	1948	1853	1762	1673	1587	1505
Energy [J]	1681	1540	1409	1287	1174	1069	971	881	798	721	650	585	526
Time of flight [ms]	0	57	117	179	244	312	384	459	538	621	709	801	898
Wind drift [inch]	0	0.27	1.04	2.34	4.22	6.70	9.83	13.64	18.20	23.55	29.75	36.86	44.93

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	-4	-13	-25	-43	-66	-96	-133	-177	-230	-293	-366
	100 m	2	x	-6	-17	-32	-53	-81	-115	-157	-208	-269	-340
	150 m	4	4	x	-8	-21	-40	-66	-98	-138	-186	-245	-314
	200 m	7	9	7	x	-10	-27	-50	-80	-118	-164	-221	-288
	250 m	9	13	14	10	x	-14	-35	-63	-98	-143	-197	-262
	300 m	11	18	20	18	11	x	-20	-45	-79	-121	-173	-236
	350 m	14	23	28	29	24	15	x	-24	-55	-95	-144	-204
	400 m	17	29	37	41	40	33	20	x	-28	-64	-110	-167
	450 m	20	35	46	53	55	51	41	25	x	-34	-77	-131
	500 m	23	42	57	67	72	72	66	52	31	x	-38	-89

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	-1.05	-3.46	-7.44	-12.94	-20.22	-29.43	-40.78	-54.50	-70.81	-90.08	-112.57
	100 yds	0.38	x	-2.04	-5.56	-10.59	-17.39	-26.13	-37.01	-50.26	-66.10	-84.89	-106.92
	150 yds	0.86	1.15	x	-3.04	-7.44	-13.62	-21.73	-31.98	-44.61	-59.82	-77.98	-99.38
	200 yds	1.49	2.72	2.20	x	-3.52	-8.91	-16.23	-25.70	-37.54	-51.96	-69.34	-89.95
	250 yds	1.96	3.97	4.09	2.61	x	-5.14	-11.83	-20.67	-31.88	-45.68	-62.43	-82.41
	300 yds	2.59	5.55	6.44	5.75	3.55	x	-6.33	-14.39	-24.81	-37.83	-53.79	-72.99
	350 yds	3.22	7.43	9.27	9.52	8.27	5.23	x	-6.85	-16.33	-28.40	-43.42	-61.68
	400 yds	4.00	9.00	11.63	12.66	12.19	9.94	5.76	x	-9.26	-20.55	-34.78	-52.26
	450 yds	4.79	11.20	14.93	17.06	17.69	16.54	13.46	8.23	x	-9.55	-22.69	-39.06
	500 yds	5.57	13.09	17.75	20.83	22.40	22.19	20.06	15.77	9.12	x	-12.32	-27.75

Maximum range: 3629 m / 4742 yds

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

Diagram of different zero ranges

