

# .223 Rem. SWISS P Final SR

## 3.4 g / 52 gr

Outstanding stopping power

Total bullet disintegration avoids collateral damage

Specifically designed for short range missions



<b>Cartridge</b>		<b>5.56x45 / .223 Rem.</b>	
projectile	JHP, 3.4 g / 52 gr		
projectile material	tombac jacket, lead core		
ballistic coefficient C1	0.1816 (ICAO)		
primer / propellant	SINTOX® / double base powder		
case material	CuZn - alloy		
cartridge weight	11.7 g		
<b>Performance</b>			
term of reference	C.I.P.		
mean case mouth pressure	max. 4 300 bar	(21°C)	
muzzle velocity	1 040 m/s (3 412 fps)	600 mm barrel	
muzzle energy	1 407 J		
accuracy at 100 m	$s_a \leq 14$ mm		
<b>Packaging</b>			
standard cardboard box	30rds/ cardboard box, 900rds/ cardboard box, 43200rds EU pallet		

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Ballistic Coefficients	1040 m/s	340 m/s	200 m/s
Drag Coefficient	0.4116	0.3562	0.1866
Ballistic Coefficient G1	0.1816	0.1830	0.1830
Ballistic Coefficient G7	0.0930	0.1462	0.1061

Ballistic Coefficients	3412 fps	1115 fps	656 fps
Drag Coefficient	0.4116	0.3562	0.1866
Ballistic Coefficient G1	0.1816	0.1830	0.1830
Ballistic Coefficient G7	0.0930	0.1462	0.1061

Trajectory	0 m	20 m	40 m	60 m	80 m	100 m	120 m	140 m	160 m	180 m	200 m	220 m	240 m
Velocity [m/s]	1040	1001	963	926	890	854	820	786	753	721	690	660	631
Energy [J]	1'839	1'704	1'578	1'458	1'346	1'241	1'143	1'051	964	884	810	741	677
Time of flight [ms]	0	20	40	61	83	106	130	155	181	208	236	266	297
Wind drift [cm]	0	0	1	1	2	3	4	6	9	10	12	15	19

Trajectory	0 yds	20 yds	40 yds	60 yds	80 yds	100 yds	120 yds	140 yds	160 yds	180 yds	200 yds	220 yds	240 yds
Velocity [fps]	3412	3295	3181	3069	2958	2850	2745	2643	2542	2444	2348	2255	2165
Energy [J]	1839	1715	1598	1487	1382	1283	1190	1103	1020	943	871	803	741
Time of flight [ms]	0	18	36	56	76	97	118	141	164	188	214	240	268
Wind drift [inch]	0	0.05	0.20	0.46	0.66	0.94	1.37	1.95	2.73	3.49	3.96	4.84	5.83

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	20 m	40 m	60 m	80 m	100 m	120 m	140 m	160 m	180 m	200 m	220 m	240 m
Rifle zeroed at 20 m	x	0	-1	-1	-2	-3	-4	-6	-8	-10	-13	-16	
40 m	0	x	0	-1	-1	-2	-4	-5	-7	-9	-12	-15	
60 m	0	0	x	0	-1	-2	-3	-4	-6	-8	-11	-14	
80 m	0	0	0	x	-1	-1	-2	-4	-5	-7	-10	-13	
100 m	0	1	1	0	x	-1	-1	-3	-4	-6	-9	-11	
120 m	0	1	1	1	0	x	-1	-2	-3	-5	-8	-10	
140 m	1	1	1	1	1	1	x	-1	-2	-4	-6	-9	
160 m	1	1	2	2	2	2	1	x	-1	-3	-5	-7	
180 m	1	2	2	2	2	2	2	1	x	-1	-3	-6	
200 m	1	2	2	3	3	3	3	2	1	x	-2	-4	

Trajectory	inch	20 yds	40 yds	60 yds	80 yds	100 yds	120 yds	140 yds	160 yds	180 yds	200 yds	220 yds	240 yds
Rifle zeroed at 20 yds	x	-0.06	-0.18	-0.36	-0.61	-0.94	-1.35	-1.86	-2.47	-3.19	-4.04	-5.03	
40 yds	0.03	x	-0.09	-0.24	-0.46	-0.75	-1.13	-1.61	-2.18	-2.87	-3.69	-4.65	
60 yds	0.06	0.06	x	-0.11	-0.30	-0.56	-0.91	-1.36	-1.90	-2.56	-3.35	-4.27	
80 yds	0.09	0.12	0.10	x	-0.14	-0.38	-0.69	-1.10	-1.62	-2.25	-3.00	-3.90	
100 yds	0.12	0.19	0.20	0.14	x	-0.19	-0.47	-0.85	-1.33	-1.93	-2.66	-3.52	
120 yds	0.16	0.25	0.29	0.27	0.17	x	-0.25	-0.60	-1.05	-1.62	-2.31	-3.14	
140 yds	0.20	0.33	0.41	0.42	0.37	0.24	x	-0.29	-0.70	-1.22	-1.88	-2.67	
160 yds	0.23	0.41	0.53	0.58	0.57	0.47	0.30	x	-0.34	-0.83	-1.45	-2.20	
180 yds	0.27	0.49	0.64	0.74	0.76	0.71	0.57	0.34	x	-0.44	-1.01	-1.73	
200 yds	0.32	0.58	0.79	0.93	1.00	0.99	0.90	0.72	0.43	x	-0.50	-1.16	

Maximum range: 3118 m / 3410 yds

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

### Diagram of different zero ranges

