



Cal. 5.56x45mm

M193 Ball, M196 Tracer,
M855/SS109, M856 Tracer

Cal. 5.56x45mm | BALLISTIC DATA

Cal. 5.56x45mm with bullet	Energy (J)	V _{23,77} (m/s)	P (bar)	Accuracy mean radius (cm) at 183 m	Tracer visibility
M193 Ball	-	964,7 ± 12	max. 3792	max. 5,08	-
M196 Tracer	-	949,5 ± 12	max. 3792	max. 12,7	Visible trace from max. 69 m to min. 457 m from the weapon

Used for 5.56x45mm caliber weapon with a 1:12" twist barrel

Cal. 5x56x45mm with bullet	Energy (J) at 24 m from the muzzle	V _{23,77} (m/s)	P+3Sd (bar)	Accuracy Sdx/Sdy (cm) at 550 m	Tracer visibility
M855/SS109	min. 1480	920,5 ± 12	max. 4450	max. 20	-
M856 Tracer	min. 1480	917,4 ± 12	max. 4450	max. 30	Dim trace to min. 13 m from the weapon, visible from max. 140 m to min. 600 m from the weapon

Used for 5.56x45mm caliber weapon with a 1:7" twist barrel

Penetration M855/SS109: Bullets shall completely perforate the mild steel plate at 3,5 mm nominal (10 gauge) thickness, defined in SAE 1010 or SAE 1020, Rockwell hardness, minimum B 55, maximum B 70, placed 570 m from the muzzle at 0 degree obliquity (normal to the line of fire).

Cal. 5.56x45mm | TECHNICAL DATA

Element	Material				Weight (g)				Length (mm)			
	M193 Ball	M196 Tracer	M855/SS109	M856 Tracer	M193 Ball	M196 Tracer	M855/SS109	M856 Tracer	M193 Ball	M196 Tracer	M855/SS109	M856 Tracer
Bullet	Jacket	Tombac	Tombac plated steel strip or copper washer steel strip	Tombac	3,56	3,5	4,00	3,92	19,17	23,2	23,4	28,45
	Core	Lead antimony	Lead antimony	Lead antimony and steel	(55 gr)	(54 gr)	(62 gr)	(61 gr)				
	Tracer mixture	-	Tracer compos.	-								
	Cup, closure	-	Tombac	-								
Cartridge case	Brass				-6,10				44,70			
Propelling charge	Spherical powder				~1,64	~1,69	~1,60	~1,36	-			
Primer	Boxer non-corrosive				0,23				3,10			
Cartridge					Average Q (100) ± 0,4 g				57,40			

Cal. 5.56x45mm | PACKAGING

Version 1	Version 2	Version 3	Version 4
<ul style="list-style-type: none"> • 20 rounds in cardboard box • 50 cardboard boxes (1000 round) in metal box M2A1 • 2 metal boxes (2000 rounds) in wooden crate 	<ul style="list-style-type: none"> • 20 rounds in cardboard box • 10 cardboard boxes (200 rounds) in PVC bag • 5 PVC (1000 rounds) bags in carton case 	<ul style="list-style-type: none"> • 200 rounds in metal link belt (M27) • 4 metal link belts in metal box M2A1 (800 rounds) • 2 metal boxes in wooden crate (1600 rounds) 	<ul style="list-style-type: none"> • 20 rds in a clip • 5 clips in a cardboard box • 20 cardboard boxes in metal box M2A1 • 2 metal boxes in wooden crate