

AMMUNITION CALIBER

9 x 19 mm



5.56 x 45 mm



7.62 x 39 mm



7.62 x 51 mm



12.7 x 99 mm



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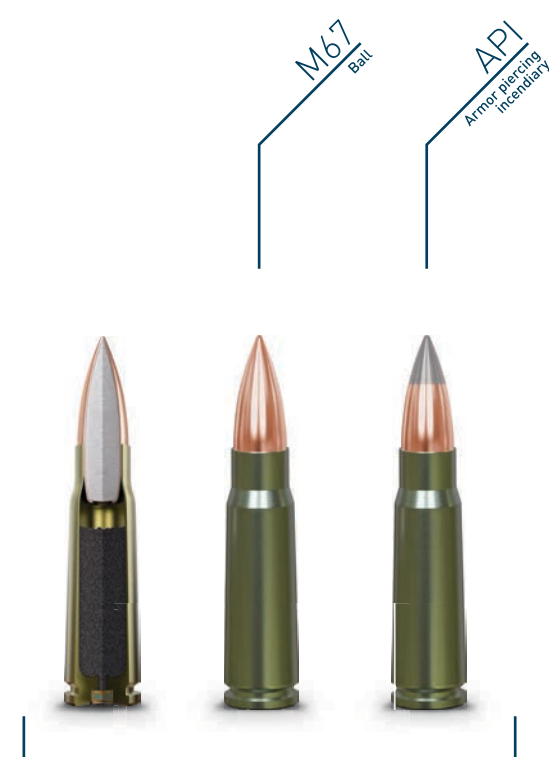




9 x 19 mm



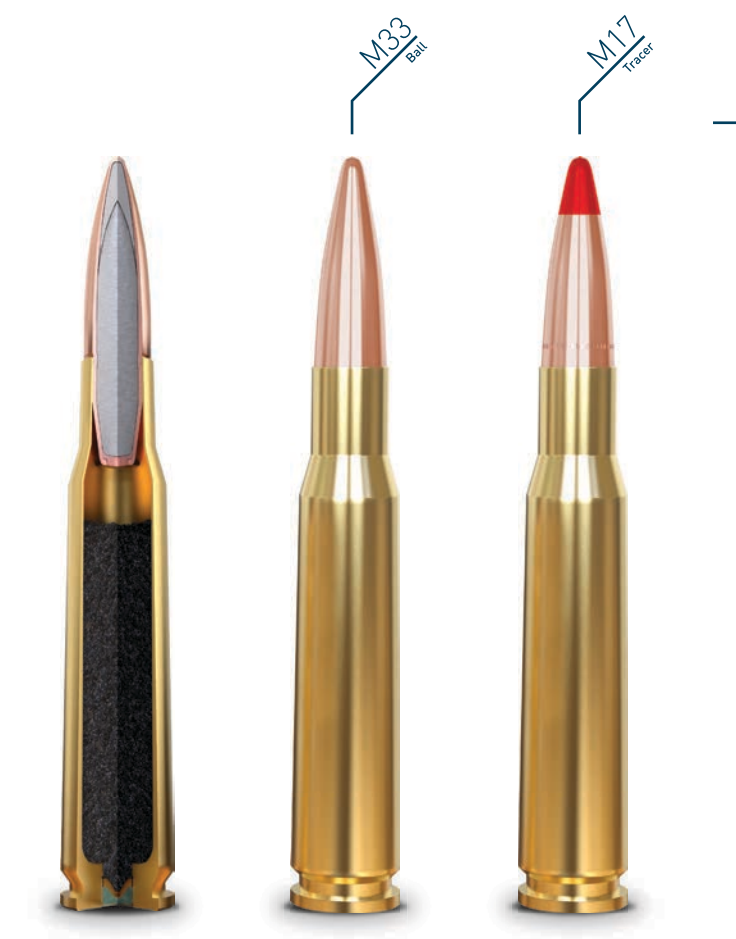
5.56 x 45 mm



7.62 x 39 mm



7.62 x 51 mm



12.7 x 99 mm

BULLET TYPE	LUGER (124) BALL	LUGER (115) BALL	PARABELLUM (124) BALL
BULLET WEIGHT	124 gr (~ 8,00 g)	115 gr (~ 7,50 g)	124 gr (~ 8,00 g)
BULLET MATERIAL	Jacket - Tombac CuZn30 Core - Lead Antimony		
CASE MATERIAL	Brass CuZn30		
CASE LENGTH	~ 19,15 mm		
PRIMER TYPE	9 mm Primer, Boxer, non-corrosive		
POWDER TYPE	Spherical, Double Base Powder		
PREASURE	Max. 2350 Bar (Chamber)	Max. 2350 Bar (Chamber)	Pmax + 35d < 2850 Bar (Case Mouth)
VELOCITY (m/s) at 16 m	350 ± 10 m/s	350 ± 10 m/s	370 ± 10 m/s
ACCURACY (STANDARD DEVIATION)	Max. 76 mm at 50 m		
ACTION TIME	<3 ms		
EXTRACTION FORCE	Min. 20.4 kgf / 200.4 N		
CARTRIDGE LENGTH	~ 26,69 mm		
WATERPROOFNESS			Applied
TEMPERATURE RANGE			-54°C to +52°C
REFERENCE DOCUMENT	C.I.P. / SAAMI		AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOPI) FOR SMALL ARMS AMMUNITION Aop-4090 Technical Performance Specification Providing For The Interchangeability Of 9 mm x 19 Ammunition

BULLET TYPE	M193 BALL	M855 BALL	M856 TRACER
BULLET WEIGHT	~ 55 gr (~ 3,56 g)	~ 62 gr (~ 4,00 g)	~ 62 gr (~ 4,00 g)
BULLET MATERIAL	Jacket - Tombac CuZn10 Core - Lead Antimony	Jacket - Tombac CuZn10 Core - Steel and Lead Antimony	Jacket - Tombac plated steel strip or copper washer steel strip Core - Lead Antimony Tracer- Tracer Comp.
CASE MATERIAL	Brass CuZn30		
CASE LENGTH	~ 44,70 mm		
PRIMER TYPE	4.4 Primer, Boxer, non-corrosive		
POWDER TYPE	Spherical, Double Base Powder		
CASE MOUTH PRESSURE	Pavg. + 35D ≤ 4450 Bar		
PORT PRESSURE	Port - 35d > 1030 Bar		
VELOCITY (m/s) at 24 m	960 ± 20 m/s	920 ± 20 m/s	895 ± 12 m/s
ACCURACY (STANDARD DEVIATION)	Max. 50.8 mm at 180 m	Max. 200 mm at 550 m	Max. 300 mm at 550 m
TRACE			Dim trace to min 13 m from the muzzle of the weapon, visible from max 140 m to min 600 m from the muzzle of the weapon
ACTION TIME	<3 ms		
EXTRACTION FORCE	Min. 20.4 kgf / 200.4 N		
CARTRIDGE LENGTH	~ 57,4 mm		
WATERPROOFNESS	Applied		
TEMPERATURE RANGE	-54 °C to +52°C		
REFERENCE DOCUMENT	AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOPI) FOR SMALL ARMS AMMUNITION Aop-4172 Technical Performance Specification Providing For The Interchangeability Of 5.56 mmx45 Ammunition		

BULLET TYPE	M43 BALL
BULLET WEIGHT	123 gr (~ 8,00 g)
BULLET MATERIAL	Jacket -Tombac Plated Steel / Core 1 - Steel / Core 2 - Lead Antimony
CASE MATERIAL	Steel
CASE LENGTH	~ 38,70 mm
PRIMER TYPE	5.3 Primer, Boxer, non-corrosive
POWDER TYPE	Spherical, Double Base Powder
CASE MOUTH PRESSURE	Pmax 3350 bar
VELOCITY (m/s) at 24 m	715 ± 20 m/s
ACTION TIME	< 4 ms
EXTRACTION FORCE	Min. 27.2 kgf / 265 N
CARTRIDGE LENGTH	~ 56,00 mm
WATERPROOFNESS	Applied
TEMPERATURE RANGE	-54 °C to +52°C

BULLET TYPE	M80 BALL	M62 TRACER
BULLET WEIGHT	~149 gr (~ 9,65 g)	~146 gr (~ 9,46 g)
BULLET MATERIAL	Jacket- Tombac / CuZn10 Core - Lead Antimony	Jacket - Tombac plated steel strip or copper washer steel strip Core- Lead Antimony Tracer- Tracer Comp.
CASE MATERIAL	Brass CuZn30	
CASE LENGTH	~ 51,18 mm	
PRIMER TYPE	5.3 Primer, Boxer, non-corrosive	
POWDER TYPE	Spherical, Double Base Powder	
CASE MOUTH PRESSURE	Pavg. + 35D ≤ 4450 Bar	
PORT PRESSURE	Min. 550 Bar	
VELOCITY (M/S) AT 24 M	833 ± 15m/s	818 ± 15m/s
ACCURACY (STANDART DEVIATION)	Max. 200 mm at 550 m	Max. 300 at 550 m
TRACE	Dim trace to min 13 m from the muzzle of the weapon, visible from max 140 m to min 600 m from the muzzle of the weapon	
ACTION TIME	< 4 ms	
EXTRACTION FORCE	Min. 27 kgf/265N	
CARTRIDGE LENGTH	~ 71,12 mm	
WATERPROOFNESS	Applied	
TEMPERATURE RANGE	-54 °C to +52°C	
REFERANCE DOCUMENT	AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOPI) FOR SMALL ARMS AMMUNITION Aop-2310 Technical Performance Specification Providing For The Interchangeability Of 7,62 mm x 51 Ammunition And Links	

BULLET TYPE	M33 BALL	M17 TRACER BALL
BULLET WEIGHT	653 gr (~ 42,3 g)	618 gr (~ 40,0 g)
BULLET MATERIAL	Jacket - Tombac Core - Steel Cup Closure- Lead Antimony Filler Point- Borax	Jacket - Tombac plated steel strip or copper washer steel strip Core- Lead Antimony Tracer- Tracer Comp.
CASE MATERIAL	Brass CuZn30	
CASE LENGTH	~ 99,31 mm	
PRIMER TYPE	12,7 mm Primer, Boxer, non-corrosive	
POWDER TYPE	Spherical, Double Base Powder	
CASE MOUTH PRESSURE	Pmax + 35d ≤ 4500 Bar	
PORT PRESSURE		
VELOCITY (m/s) at 24 m	887 ± 12 m/s	
ACCURACY (STANDARD DEVIATION)	Max. 300 mm at 550 m	Max. 400 mm at 550 m
TRACE	Visible trace of full luminosity from a point not greater than 200m from the muzzle of the weapon to a point not less than 1500 m from the muzzle	
ACTION TIME	< 4,5 ms	
EXTRACTION FORCE	Min. 91.7 kgf / 900 N	
CARTRIDGE LENGTH	~ 138,4 mm	
WATERPROOFNESS	Applied	
TEMPERATURE RANGE	-54 °C to +52°C	
REFERENCE DOCUMENT	AEP-97 MULTI-CALIBRE MANUAL OF PROOF AND INSPECTION (M-CMOPI) FOR SMALL ARMS AMMUNITION Aop-4383 Technical Performance Specification Providing For The Interchangeability Of 12,7 mm x 99 Ammunition And Links	



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