





## **5.56 X 45 мм** BALL FMJ M855/ SS109 - 4,0 g (62 gr)

#### 5.56 x 45 mm FMJ

The cartridge consists of case, primer, gunpowder and bullet. It is applicable in extreme polar or desert conditions, contributing to the versatility of its use.

#### 5.56 x 45 mm – FMJ bullet

The FMJ (Full Metal Jacket) bullet weighs 4.0 g (62 gr) and has a lead core with a steel penetrator, enhancing its penetration capability. The jacket is made of CuZn10, providing strength and uniformity in ballistic performance.

#### 5.56 x 45 mm – case

The caliber 5.56 x 45 mm CuZn30 case is intended for inserting the powder charge, primer and bullet.

All data provided are indicative and subject to change.

# **SPECIFICATIONS**

<b>Technical Specification</b>				
CARTRIDGE	Caliber Weight	5.56 x 45 mm, SS109 max 12.40 g		
	Length	max 57.40 mm		
BULLET GRAIN	Tues			
	Type Weight	FMJ, Ball 4.00 g ± 0.1 g (62 grain)		
	Length	max 23.4 mm		
	Material	Jacket - CuZn10; Core - Lead, Perforating - steel tip		
	Extraction	≥ 200 N		
CASE				
	Length	max 44.7 mm		
	Material	CuZn30		
PRIMER				
	Туре	Boxer, non-corrosive, non-toxic		
	Propellant	Smokeless Powder (Double Base)		
	Waterproof	Sealant applied		

The 5.56 x 45 mm, SS109, Ball, produced in ATS AMMO is compliant with NATO STANAG 4172 requirements. Ilt complies with the requirements of the NATO manuals AC/225(LG/3-SG/1)D/8 and PFP(NAAG-LCG/1-SG/1) WP(2010)0002. The ammunition can be fired from all NATO nominated 5.56 mm weapons: assault rifles – FNC, M16A2, H&K G36, BERETTA AR70/90, L85A2; Light machine gun – MINIMI. Caliber 5.56 mm M855 – NsN 1305-54-000-0139

ELECTRONIC PRESSURE AND VELOCITY (KIAG 6215)				
Ammunition Temperature	+21°C ± 2°C	+52°C & -54°C		
Velocity (at 24 m, m/s)	V = 919 ± 10 m/s	Max Velocity Difference between +52°C/ -54°C and 21°C samples +50m/s and -80m/s		
Standard Deviation	≤ 12 m/s	No requirement		
Max Corrected Mean Case Mouth Pressure, MPa	XCP +3SD ≤ 445 Mpa	Max case mouth difference between +52°C/ -54°C and 21°C samples is not +55 Mpa or -110 Mpa		
Nouth ressure, in a		XCP+3SD ≤ 445 Mpa		
Min Corrected Mean Port Pressure, MPa	XPP - 3SD ≤ 103 Mpa	Max port pressure difference between +52°C/ -54°C and 21°C samples is ± 15 Mpa		
		XPP-3SD ≥ 103 Mpa		
Action Time (ms)	No requirement	Max Mean Action Time + 5 SD for -54°C sample ≤ 3 ms		
Muzzle Energy (at 24 m, J)	≤ 1480 J	No requirement		
Precision (at 183 m)	HSD $\leq$ 46 mm and VSD $\leq$ 46 mm or Mr $\leq$ 46 mm			
Precision (at 550 m)	$HSD \leq 200 \text{ mm}$ and $VSD \leq 200 \text{ mm}$			
Function and Casualty	Permissible percentage of defects was not exceeded			
Primer sensitivity critical hight method (run down)	Test ball H	+5 SD H - 2 SD		
	111.7 ± 0.57 g ≤	450 ≤ 75		
Terminal effects at distance 570 m, perforation mild steel plate, aluminium witness screen (0.3 m behind steel plate)	· · · · · · · · · · · · · · · · · · ·	3,5 020, hardness RB 55-70) 1 ANSI 2024 T3		
Trajectory match	Horizontal ≤ 175 mm @ 300 m ≤ 385 mm @ 500 m	Vertical ≤ 125 mm @ 300 m ≤ 275 mm @ 550 m		
Waterproof test	No more than 15% of the tes	ted rounds have leaks		

Compatibility with: AC/225(LG/3-SG/1)D/8 and PFP(NAAG-LCG/1-SG/1)WP(2010)0002 and STANAG 4172

PACKING		
Micro	20 rounds fiberboard box	
Makro	540 rounds, ADR 1.4 S, UN0012 certified fiberboard case	
Weight (540 rounds)	Net: 6.63 kg (±0.04 kg)	
	Gross: 6.99 kg (±0.04 kg)	
	NEQ: 0.89 kg	
Hazard class	1.4 S	
UN Classification	CARTRIDGES, SMALL ARMS	

Packaging options are available based on the buyer's request. Cartridges can be supplied in standard outer cartons or, for an additional cost, in metal M2A1 boxes. All shipments are palletized, with boxes and pallets marked according to the customer's specifications.

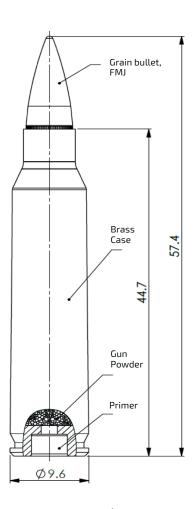
V = Corrected velocity
XCP = Corrected mean chamber presure
XPP = Corrected mean Port presure
HSD = Horizontal standard deviation
VSD = Vertical standard deviation

**Mr** = Mean radius

### **Outsourcing Components**

**ATS® Ammunition** has its own top-to-bottom manufacturing of a finished Product, an output of In-house made Machines, and produces 100% In-house Materials, Components and Tooling). ATS AMMO 5.56 x 45 mm, SS109 components (bullet, case, primer) are perfectly compact, customizable and *available for individual purchase*.





**Image:** Components Layout (5.56 x 45 mm, SS109) Part number: 5561009; NSN 1305-54-000-0139