



## 12.7 X 99 MM

NATO FMJ M33 - 42,31 G (653 GR)

#### 12.7 x 99 mm FMJ

The cartidge is NATO and is available with few bullet types. It's available for customer customizable configuation according to individual requirement.

#### 12.7 x 99 mm - FMJ bullet

The FMJ (Full Metal Jacket) bullet weighs 42.31 g (653 gr) and features a lead core for enhanced penetration and stability. The jacket is made of CuZn10, providing the necessary durability to maintain consistent ballistic performance.

#### 12.7 x 99 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**

### **Technical Specification**

#### CARTRIDGE

Caliber 12.7 x 99 mm, NATO

Weight max 112 g

Length max 138.4 mm

#### BULLET GRAIN

Type FMJ, Ball

Weight  $42 g \pm 0.4 g (649 grain)$ 

Length max 58.6 mm

Material Jacket - CuZn10;

Core - Lead

Extraction ≥ 900 N

#### (CASE)

Length max 99.31 mm

Material CuZn30

#### PRIMER

Type Boxer, non-corrosive, non-toxic

Propellant Smokeless Powder (Double Base)

Waterproof Sealant applied

The 12.7x99, NATO, Ball, ammunition producing in ATS AMMO is in compliance with NATO STANAG 4383 requirements. It's comply the the requirements to 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 12.7x99 mm weapons: M2 HB BROWNING 12.7mm Machine Gun.

FLECTRO	NIC PRESSURE AND VELO	CITY (KIAG 6215)		
Ammunition Temperature	+21°C ± 2°C	+52°C &	-54°C	
Velocity (at 24 m, m/s)	V = 890 ± 10 m/s	No requi	No requirement	
Standard Deviation	≤ 12 m/s	No requi	rement	
Max Corrected Mean Case Mouth Pressure, MPa	XCP +3SD ≤ 450 Mpa		No requirement XCP+3SD ≤ 450 Mpa	
Min Corrected Mean Port Pressure, MPa	No requirement	No requi	rement	
Action Time (ms)	No requirement		Max Mean Action Time + 5SD for -54°C sample ≤ 4.5 ms	
Muzzle Energy (at 24 m, J)	No requirement	No requi	No requirement	
<b>Precision</b> (at 550 m)	HSD ≤ 300 mm and VSD ≤ 300 mm			
Function and Casualty	Permissible percentage of defects was not exceeded			
Primer sensitivity critical hight method (run down)	Test ball 225.1 ± 0.57 g	H +5 SD ≤ 380	H - 2 SD ≥ 63	
Min Corrected Mean Port Pressure, MPa	XPP - 3SD ≤ 103 Mpa	+52°C/ -54°C is ± 15 Mpa	essure difference between C and 21°C samples	
Terminal effects at distance 100 m, perforation rolled homogeneous armor plate, mild steel witness screen (500 m behind armore plate)  XPP-3SD ≥ 103 Mpa  At least one shall completely perforate 22 mm (Brinell hardness 321–375), and at least one splinter shall perforate the witness screen 1.5mm Mild Steel (S235 JRG2 or HE280M)				

armor plate)

Trajectory match	Horizontal 550 m ≤ 550 mm 900 m ≤ 900 mm	Vertical 550 m ≤ 385 mm 900 m ≤ 630 mm		
Waterproof test	No more than 15% of the test	No more than 15% of the tested rounds have leaks		

 $Compatibility\ with:\ AC/225(LG/3-SG/1)D/8\ and\ PFP(NAAG-LCG/1-SG/1)WP(2010)0002\ and\ STANAG\ 4383$ 

PACKING		
Makro	1 (one) metal box M2A1: 140 cartridges 1 (one) wooden case for transportation: 2 (two) metal boxes Totally: 280 cartridges in 1 (one) wooden box	
Weight (100 rounds)	Net: 11.15 kg	
	Gross: 12.00 kg	
	NEQ: 1.4 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

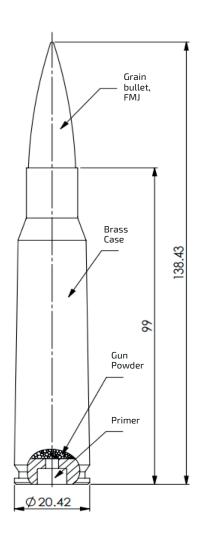
**Mr** = Mean radius

## **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 12.7 x 99 mm components (bullet, case, primer) are perfectly compact, customizable and *available for individual purchase*.







**Image:** Components Layout (12.7 x 99 mm) Part number: 1271099