

ATS AMMUNITION LTD | Samokov BB 6535 Makedonski Brod | North Macedonia



7.62 X 51 MM BALL FMJ M80 - 9,4 G (147 GR)

7.62 x 51 mm - cartridge

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.

7.62 x 51 mm FMJ - M80 bullet

The FMJ (Full Metal Jacket) bullet weighs 9.4 g (145 gr) and features a lead core to deliver reliable penetration and stability. The jacket is made of CuZn10, providing the bullet with strength and uniform ballistic characteristics.

7.62 x 51 mm - case

The caliber 7.62 x 51 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 Weight Length | 7.62 x 51 mm, NATO max 25.4 g max 71.12 mm |
| BULLET GRAIN | Туре | FMJ, Ball |
| | Weight Length | 9.52 g ± 0.1 g (147 grain) max 28.95 mm |
| | Material Extraction | Jacket - CuZn10; Core - Lead ≥ 265 N |
| CASE | | |
| | Length Material | max 51.18 mm CuZn30 |
| DDIMED | | |
| PRIMER | Type Propellant Waterproof | Boxer, non-corrosive, non-toxic Smokeless Powder (Double Base) Sealant applied |

The 7.62x51mm, NATO, Ball, ammunition producing in ATS AMMO is in compliance with NATO STANAG 2310 requirements. It's comply the requirements to the NATO manuals AC/225(LG/3-SG/1)D/9 and PFP (NAAG-LCG/1-SG/1)WP(2010)0002. The ammunition can be fired from NATO 7.62 mm weapons: Machine gun - L7A2 and M240B as well as assault rifles -G3A2, M14.

| ELECTRONIC PRESSURE AND VELOCITY (KIAG 6215) | | | | |
|---|---|--|--|--|
| Ammunition Temperature | +21°C ± 2°C | +52°C & -54°C | | |
| Velocity (at 24 m, m/s) | V = 825 ± 15 m/s | Max Velocity Difference between +52°C/ -54°C and 21°C samples + 45 m/s and - 75 m/s | | |
| Standard Deviation | ≤ 9.7 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 XCP ≤ 460 Mpa | | |
| Min Corrected Mean Port Pressure, MPa | XPP -3SD ≥ 56 Mpa | No requirement | | |
| Action Time (ms) | Max individual ≤ 4 ms | No requirement | | |
| Muzzle Energy (at 24 m, J) | ≤ 2765 J | No requirement | | |
| 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) | | 5 SD H - 2 SD 500 ≤ 75 | | |
| Terminal effects at distance 570 m, perforation mild steel plate, aluminium witness screen (0.3 m behind steel plate) | ≤ 90% 3,5 mm (SA1010 / 1020, hardness RB 55-70) 0,5 mm 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 test | ed rounds have leaks | | |

Compatibility with: STANAG 2310, AC/225(LG/3-SG/1)D/9 and PFP(NAAG-LCG/1-SG/1)WP(2010)0002 and STANAG 2310

| PACKING | | |
|---------------------|---|--|
| Micro | 15 rounds fiberboard box | |
| Makro | 600 rounds, ADR 1.4 S, UN0012 certified fiberboard case | |
| Weight (600 rounds) | Net: 14.60 kg | |
| | Gross: 15.40 kg | |
| | NEQ: 1.70 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

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 7.62 x 51 mm components (bullet, case, primer) are perfectly compact, customizable and *available for individual purchase*.



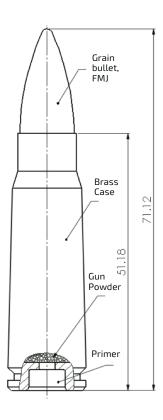


Image: Components Layout (7.62 x 51 mm) Part number: 7621051