


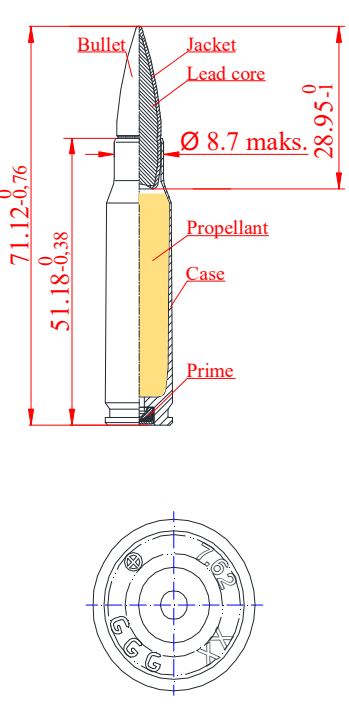
7.62x51 NATO Ball Ammunition

GENERAL INFORMATION

7.62 mm BALL NATO ammunition produced in the company AB Giraitės ginkluotės gamykla (GGG) conforms to NATO STANAG 2310 requirements. It is qualified in according to the NATO manuals AC/225(LG/3-SG/1)D/9, PFP(NAAG-LG/3-SG/1)D(2004)1. NATO Design Number is AC/116 – 33A. This ammunition produced in accordance with C.I.P (Permanent International Commission for the Proof of Small-arms), ISO 9001:2015 (Quality Management Systems Requirements), ISO 2859-1 (Sampling Procedures and for Inspection by Attributes Part 1: Sampling Plans indexed by Acceptable Quality Level (AQL) for lot-by-lot inspection), ISO 3951 (Sampling Procedures and Charts for Inspection by Variables for Percent Defective) requirements. Ammunition can be fired from NATO nominated 7.62 mm weapon: L7A2 and M240B machine gun. The cartridges 7.62x51 is designed for use in the FN MAG, MG3, M60, NF1 machine gun and FN FAL/LAR, G3A2, M14 assault rifles too.

TECHNICAL SPECIFICATIONS


1. Table. Technical specifications

		Caliber		7.62 mm
		Waterproofing lacquer		Case mouth and case-primer joint are waterproof sealing
		Total length	mm	71,12 -0,76
		Total weight	g	24,40±1,00
		Bullet	type	Ball
		Bullet weight	gr	147
			g	9,65 -0,20
		Bullet length	mm	28,95 -1,00
		Bullet extraction	N	≥ 265 N
		Bullet material		Jacket – CuZn10; core – lead antimony (2,5 %)
		Case material		CuZn30
		Case length	mm	51,18 -0,38
		Propellant	type	Double base, smokeless
			type	BOXER
		Primer		Percussion, non corrosive, non mercuric

BALLISTIC PROPERTIES

Compatibility: STANAG 2310, AC/225 (LG/3-SG/1) D/9, PFP (NAAG-LG/3-SG/1) D(2004)1.

PRODUCT INFORMATION SHEET

	CARTRIDGE 7.62x51			CALIBER: 7.62x51	SHEET: 1/4
	DRAWN BY: N.Račiūnienė	CHECKED BY: R.Bendaravičius	DATE: 30/01/2020	762 PIS GP11	02

ELECTRONIC PRESSURE, VELOCITY AND ACTION TIME (EPVAT), KIAG 6215
PRESSURE TRANSDUCER

Ammunition temperature	21 °C	+ 52 °C	- 54 °C
Velocity at 24 m, m/s	$\bar{V} = 823 \pm 15$	$- 75 \leq \bar{V}_{+52^{\circ}\text{C}} - \bar{V}_{21^{\circ}\text{C}} \leq + 45$	$- 75 \leq \bar{V}_{-54^{\circ}\text{C}} - \bar{V}_{21^{\circ}\text{C}} \leq + 45$
Case mouth pressure, bar	$\bar{P} + 3 \text{ SD} \leq 4450$	$-1100 \leq \bar{P}_{+52^{\circ}\text{C}} - \bar{P}_{21^{\circ}\text{C}} \leq +550$ $\bar{P}_{+52^{\circ}\text{C}} \leq 4600$	$-1100 \leq \bar{P}_{-54^{\circ}\text{C}} - \bar{P}_{21^{\circ}\text{C}} \leq +550$ $\bar{P}_{-54^{\circ}\text{C}} \leq 4600$
Port pressure, bar	$\bar{P} - 3 \text{ SD} \geq 560$	-	-
Action time for single round, ms	$T \leq 4$	-	-
Muzzle energy, J	$E \geq 2931$	-	-
Bullet energy at 24 m, J	$E \geq 2756$	-	-

\bar{V} = corrected mean velocity


\bar{P} = corrected mean pressure

PRECISION at distance 550 m	Horizontal standard deviation		Vertical standard deviation
	$\leq 200 \text{ mm}$		$\leq 200 \text{ mm}$
FUNCTION AND CASUALTY	Permissible percentage of defects was not exceeded		
TRAJECTORY MATCH	Vertical match		Horizontal match
At distance 300 m	$\leq 125 \text{ mm}$		$\leq 175 \text{ mm}$
At distance 550 m	$\leq 275 \text{ mm}$		$\leq 385 \text{ mm}$
TERMINAL EFFECTS at distance 550 m Perforations Mild steel plate Aluminium witness screen (0,3 m behind steel plate)	$\geq 90 \%$ 3,5 mm (SAE 1010 / 1020, hardness RB 55–70) 0,5 mm 2024T3		
PRIMER SENSITIVITY	Test ball	$\bar{H} + 5 \text{ SD}$	$\bar{H} - 2 \text{ SD}$
Critical height method (run-down)	$\text{Ø } 30 \text{ mm}$ (111,7 ± 0,57) g	$\leq 500 \text{ mm}$	$\geq 75 \text{ mm}$
WATERPROOF TEST Vacuum pressure not less 50 KPa Time not less 30 s	No more than 15% leaky rounds		

MARKING

Minimum marking of cartridge and it's packaging is done in accordance with STANAG 2953 (AOP - 2C):

PRODUCT INFORMATION SHEET

 <small>GIRAITĖS GINKLUOTĖS GAMYKLA PASSION. PERFORMANCE. PRECISION.</small>	CARTRIDGE 7.62x51			CALIBER: 7.62x51	SHEET: 2/4
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- Stamped on the base of cartridge case:

- NATO design mark
- Manufacturer's initials
- Caliber
- Last two digits of year of manufacture

- Marking on the internal carton box:

- Quantity of cartridges in the box
- Caliber
- Type of bullet
- Lot number
- NATO design mark
- Recycle marks of manufacturer

- Marking on the external carton or metal box:

- NATO stock number (NSN)
- Quantity of cartridges in the box
- Type of bullet
- Caliber
- NATO design mark
- Lot number
- Net weight
- Net explosive quantity
- Gross weight
- Volume
- Proper chipping name
- Certification number of the outer box
- UN number
- Explosive hazard orange mark
- Recycle marks of package
- Serial number label of box


PACKAGING

7.62x51 cartridges supplied in either outer carton or metal M2A1 boxes which are palletized. The boxes and pallets should be marked according to the requirements of the customer.

2. Table. Cartridges packaging and units

Number of packing option	Palletization option	PACKING OPTION	UNITS			
			Quantity of cartridges	Dimension, mm	Net weight, kg	Gross weight, kg
NSN 1305-47-000-1192						
1		Internal carton box	20	72 x 61 x 43	-	0,5
		External Metal box M2A1	640	305,6 x154,8 x190,5	16,0	19,0
	1.1	EUR pallet	30720	920x1250x520	737,0	941,0
	1.2	EUR pallet	35840	1080x1250x520	860,0	1097,0

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	DRAWN BY: N.Račiūnienė	CHECKED BY: R.Bendaravičius	DATE: 30/01/2020	762 PIS GP11	02


Continue of Table 2. Cartridges packaging and units

Number of packing option	Palletization option	PACKING OPTION	UNITS			
			Quantity of cartridges	Dimension, mm	Net weight, kg	Gross weight, kg
2		Internal carton box	20	72 x 61 x 43	–	0,5
		External carton box	600	321x154x183	15,0	16,0
	2.1	EUR pallet	38400	800x1200x900	921,0	1053,0
	2.2	Strengthened EUR pallet	42000	1000x1200x810	1008,0	1187,0

SHIPPING AND STORAGE DATA

Proper shipping name – Cartridges for weapons, inert projectile
 Hazard classification code – 1.4 S
 UN serial number – UN 0012

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 <small>GIRAITĖS GINKLUOTĖS GAMYKLA PASSION. PERFORMANCE. PRECISION.</small>	CARTRIDGE 7.62x51			CALIBER: 7.62x51	SHEET: 4/4
	DRAWN BY: N.Račiūnienė	CHECKED BY: R.Bendaravičius	DATE: 30/01/2020	762 PIS GP11	02