

.223 Rem Ammunition (GPR13)

GENERAL INFORMATION

.223 Rem ammunition produced in the company AB Giraitės ginkluotės gamykla (GGG). Ammunition is designed for hunting and target shooting. 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 is designed for shooting .223 Rem caliber weapons. It is designed for short-term storage and not to used either in or under the extreme climatic conditions.

TECHNICAL SPECIFICATIONS

1. Table. Technical specifications

	Caliber		.223 Rem	
	Normal description		GPR13	
	Bullet	type	HPBT	
	Bullet weight	gr	69	
		g	4,47	
	Total length	mm	57,40 - 0,70	
	Bullet extraction	N	≥ 50	
	Bullet material		Jacket – CuZn5; Core – lead antimony (1,5%)	
	Case material		CuZn30	
	Case length	mm	44,70 - 0,25	
	Propellant	type	Double base	
	Total weight	g	12,3±0,45	
	Primer	type	BOXER	

BALLISTIC PROPERTIES

1. Table. Bullet average velocity values, shooting from C.I.P. testing barrel

PARAMETER	BULLET MEAN VELOCITY V ₀ , m/s					
	GPR13					
Bullet mean velocity, m/s, barrel length 600 mm, twist 9"	900 ± 7					
Velocity maximum standard deviation	7,2					
PARAMETERS	RANGE					
	0	100	200	300	400	500
Velocity (m/s)	900	795	700	615	535	465
Bullet path (cm)	-	0	-16	-51	-113	-210
Energy (J)	1810	1420	1100	845	640	480
Ballistic coefficient	0.301					

PRODUCT INFORMATION SHEET

	CARTRIDGE .223REM GPR13			CALIBER: .223Rem	SHEET: 1/3
	DRAWN BY: N.Račiūnienė	CHECKED BY: R.Bendaravičius	DATE: 20/02/2018	223 PIS GPR13	01

MARKING

Minimum marking of cartridge and it's packaging is done in accordance with C.I.P. 3. TESTING OF AMMUNITION requirements:

- Stamped on the base of cartridge case:

- Manufacturer's initials
- Caliber

- Stenciled on the internal carton box:

- Manufacturer's logo and name
- Quantity of cartridges in the box
- Weight of bullet
- Caliber
- Type of bullet
- Lot number
- CIP Mark
- Bullet velocity, bullet path and energy at 0, 100, 200, 300, 400 and 500 m from barrel mouth. Initial bullet velocity at barrel mouth, recalculated from V_{24} m/s velocity.
- Ballistic coefficient
- Warnings related to the exploitation and health safety.
- Barcode
- Address of manufacture
- Recycle marks of package

- Stenciled on the external box:

- Manufacturer's logo and name
- Caliber and design
- Quantity of inner carton boxes in the outer carton box
- Quantity of cartridges in the inner carton box
- Quantity of cartridges in the outer carton box
- Safety information
- Lot number
- Weight of bullet
- Type of bullet
- Net weight
- Net explosive quantity
- Gross weight
- Volume
- Certification number of the outer box
- Proper shipping name
- Explosive hazard orange mark
- Recycle marks of package
- Address of manufacturer
- UN number
- Serial number label of box

PACKAGING

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.

PRODUCT INFORMATION SHEET

GGG

GIRAITĖS GINKLUOTĖS GAMYKLA
PASSION. PERFORMANCE. PRECISION.

CARTRIDGE .223REM GPR13

CALIBER:

.223Rem

SHEET:

2/3

DRAWN BY:
N.Račiūnienė

CHECKED BY:
R.Bendaravičius

DATE:
20/02/2018

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01


3. Table. Cartridges packaging and units

Number of packing option	Variant of packing on pallet	PACKING OPTION	UNITS			
			Quantity of cartridges	Dimension, mm	Net weight, kg	Gross weight, kg
1		Internal colour carton box	20	22x63x113	–	–
		External Metal box M2A1	800	305,6x154,8x190,5	10,2	14,2
	1.1	EUR pallet	44800	1080x1250x520	571,0	828,0
2		Internal carton box	50	43,5x58x97	–	–
		External Metal box M2A1	1000	305,6x154,8x190,5	12,7	15,7
	2.1	EUR pallet	56000	950x1250x520	714,0	912,0
3		Internal colour carton box	20	22x63x113	–	–
		External carton box	760	321x154x183	9,7	11,4
	3.1	EUR pallet	48640	800x1200x900	620,0	758,0
	3.2	Strengthened EUR pallet	53200	1000x1200x810	678,0	865,0
4		Internal carton box	50	43,5x58x97	–	–
		External carton box	1200	321x154x183	15,3	15,9
	4.1	EUR pallet	76800	800x1200x900	979,0	1046,0
	4.2	Strengthened EUR pallet	84000	1000x1200x810	1071,0	1180,0

SHIPPING AND STORAGE DATA

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

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 GIRAITĖS GINKLUOTĖS GAMYKLA PASSION. PERFORMANCE. PRECISION.	CARTRIDGE .223REM GPR13			CALIBER: .223Rem	SHEET: 3/3
	DRAWN BY: N.Račiūnienė	CHECKED BY: R.Bendaravičius	DATE: 20/02/2018	223 PIS GPR13	01