



EUROTEK
Group

9x18 mm Pistol Cartridge with Rubber Bullet

9x18 mm pistol cartridge with rubber bullet is intended for less-lethal use in law enforcement and personal defense scenarios. It provides controlled impact with limited penetration at close range.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	9x18
Bullet weight, g	4.2
Cartridge length, mm	23 ±1.0
Effective range of fire, m	5-10
Operating temperature range	-15°C to +40°C

9x18 mm Cartridge with Steel Core Bullet (57-N-181S)

9x18 mm steel core bullet cartridge (57-N-181S) is designed for enhanced penetration against soft barriers and is compatible with standard PM-type pistols and submachine guns



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	9x18
Cartridge weight, g	9.26-10.07
Bullet weight, g	5.75-6.15
Cartridge case weight, g	3.09-3.44
Powder charge weight, g	0.25
Cartridge length, mm	25
Case length, mm	18.1
Muzzle velocity, m/s	300-300
Max mean gas pressure, MPa	≤252.0 (1200)
Accuracy (R), cm at 25 m	\$3.2
Case material	Steel or brass

9x19 mm Pistol Parabellum Cartridge

9x19 mm Parabellum cartridge is designed for semi-automatic pistols and submachine guns. It delivers reliable ballistic performance for military and law enforcement use.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	9x19
Cartridge weight, g	12.0 ±0.4
Bullet weight, g	7.9 ±0.1
Powder charge weight, g	0.34
Cartridge length, mm	29.69.9.70
Case length, mm	19.15.
Muzzle velocity, m/s	350 ±10
Max mean gas pressure, MPa	≤252.0 (2570)
Accuracy (R), cm at 25 m	≤3.2
Case material	Steel or brass

5.45x39 mm Cartridge with Enhanced Penetrating Bullet (7N10)

5.45 mm cartridge with 7N10 bullet is designed to engage unshielded targets at up to 1.200 m, flak vest-clad manpower at up to 100 m, personnel behind lightly armored barriers at up to 1,000 m, and aerial targets at up to 900 m. It is compatible with all weapons chambered for the 5.45 mm cartridge. The bullet is unpainted



PARAMETER	VALUE
Caliber, mm	5.45x39
Cartridge weight, g	10.19-11.08
Bullet weight, g	3.49-3.63
Cartridge case weight, g	5.1-5.75
Powder charge weight, g	1.44
Cartridge length, mm	57
Muzzle velocity, m/s	870-890
Max gas pressure, MPa	≤294.2 (3000)
Accuracy (R), cm at 100 m	≤3.5
Penetration range, m	16 mm St3-100
Case material	Steel
Grade powder	SSNI-30/3.69 (SB-410)

5.45 mm Cartridge with a Tracer Bullet

This tracer cartridge is used for target designation and fire correction. It can be fired from all 5.45 mm chambered weapons. The bullet tip is painted green.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	5.45x39
Cartridge weight, g	10.3
Bullet weight, g	3.23
Cartridge case weight, g	1.44
Powder charge weight, g	57
Cartridge length, mm	883
Case length, mm	<294.2 (3000)
Muzzle velocity, m/s	514
Max mean gas pressure, MPa	800
Accuracy (R), cm at 25 m	Steel
Case material	SSNI-30/3.69

7.62 mm Cartridge with a Tracer Bullet (57-T-231P, Mod.1943)

This tracer cartridge is used for target designation and fire correction. It can be fired from all 5.45 mm chambered weapons. The bullet tip is painted green.



PARAMETER	VALUE
Caliber, mm	7.62x39
Cartridge weight, g	16.1
Bullet weight, g	7.57
Cartridge case weight, g	1.56
Powder charge weight, g	56
Cartridge length, mm	718
Case length, mm	≤274.6 (2800)
Muzzle velocity, m/s	\$14
Max mean gas pressure, MPa	800
Accuracy (R), cm at 25 m	Steel or brass
Case material	SSNI-30/3.97

7.62 mm Cartridge with Steel Core Bullet (57-N-231S Mod.1943)

This cartridge is intended to engage hostile personnel at 800 m with assault rifles and 1,000 m with light machine guns. Used in AK, SKS, and RPD systems. Bullet is unpainted.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	7.62x39
Cartridge weight, g	15.8-16.8
Bullet weight, g	7.75-8.05
Cartridge case weight, g	6.25-6.8
Powder charge weight, g	1.56
Cartridge length, mm	56
Case length, mm	710-725
Muzzle velocity, m/s	≤274.6 (2800)
Max mean gas pressure, MPa	2.5
Accuracy (R), cm at 25 m	Steel or brass
Case material	SSNI-30/3.97

7.62 mm Cartridge with Low Velocity Bullet (57-N-231U)

Designed for covert operations at ranges up to 400 m, this subsonic cartridge is used with AKM/AKMS rifles fitted with PBS-1 suppressor. The bullet tip is painted black and green.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	7.62x39
Cartridge weight, g	20.2
Bullet weight, g	12.55
Powder charge weight, g	1.0
Cartridge length, mm	56
Muzzle velocity, m/s	293
Accuracy (R), cm at 100 m	≤3.5
Case material	Steel or brass
Grade powder	P-45

7.62x54 mm Cartridge with a T-46 Tracer Bullet

This cartridge is designed to designate targets and adjust fire. It is fired from UP-7.62, HP-7.62, PK (PKM), PKS (PKMS), PKB (PKMB), PKT (PKTM), GShG-762 machine guns as well as SVD (SVDS), PSL, SV-98 and "Yirtijl sniper rifles. The tip of the bullet is painted green



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	7.62x54
Cartridge weight, g	21,8-22,3
Bullet weight, g	9,4-10,5
Powder charge weight, g	3.2
Cartridge length, mm	77.18
Grade powder	VT or .308 Win
Muzzle velocity, m/s	825-855
Max gas pressure, MPa	284.4
Accuracy (R), cm at 100 m	≤5
Tracer burning time, s	3
Case material	Steel or brass

7.62 mm Cartridge with Steel Core Bullet (57-N-323S)

This cartridge is designed to engage hostile manpower and fire weapons. It is fired from PK (PKM), PKS (PKMS), PKB (PKMB), PKT (PKTM), UP-7.62, HP-7.62, SGM and GShG-7.62 machine guns, as well as SVD (SVDS), PSL, SV-98 and "Yiritji" sniper rifles. The bullet is not painted.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	7.62x54
Cartridge weight, g	22.15-23.1
Bullet weight, g	9.45-9.75
Powder charge weight, g	3.15
Cartridge length, mm	77.181.26
Grade powder	VT or .308 Win
Muzzle velocity, m/s	820-835
Max gas pressure, MPa	<284.4 (2900)
Accuracy (Rs), cm at 100 m	≤3
Case material	Brass or steel

7.62x54 mm Cartridge with B-32 Bullet

This armor-piercing incendiary cartridge is designed for use with PK, PKM, PKS, PKMS, UP-7.62, PKT machine guns and SVD sniper rifles under various climatic conditions. The cartridge is produced in different variants designated as "B-32'pg. "B-32'bg, and "B-32°dg, it is suitable for engaging lightly armored targets and features high kinetic energy combined with incendiary effect.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	7.62x54
Cartridge weight, g	B-32 pg: 21.6-23.6
	B-32 bg: 22.9-24.41
	B-32 dg: 21.6-23.4
Bullet weight, g	10.40
Powder charge weight, g	3.15
Muzzle velocity at 25 m, m/s	860 ±15
Max gas pressure, MPa (kgf/cm ²)	≤303.9 (3100)
Primer	KV-27 (GOST B23241-96)
Armor penetration, mm 200 m	10 (perpendicular plate)
Accuracy (R), cm at 100 m	≤5

12.7x108 mm Cartridge with BZT-44 Bullet (57- BZT-542)

The cartridge is used for target designation, fire correction, and Ignition of flammable targets. It effectively penetrates 15 mm of perpendicular armor at distances up to 70 m and ignites B-70 petrol. The bullet tip is painted red and violet

<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	12.7x108
Muzzle velocity, m/s	810-825
Accuracy (R), cm at 100 m	\$8
Max gas pressure, MPa (kgf/cm ²)	≤303.8 (3100)
Bullet weight, g	43.2-44.8
Cartridge weight, g	125-132
Powder charge weight, g	16
Cartridge length, mm	147
Tracer action time, s	23
Grade powder	4/7
Case material	Brass
Armor penetration, 100 m	15 mm(perpendicular plate)



12.7x108 mm Cartridge with B-32 Bullet (57-BZ-542)

Designed to engage lightly armored vehicles, infantry, and low-flying aerial targets. Penetrates 20 mm armor at 100 m with 90% probability. Fired from NSV-12.7, NSVT12.7, DShKM machine guns, and OSV-96, 1ST-12.7. ASVK rifles. Bullet tip is black with a red tip.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	12.7x108
Muzzle velocity, m/s	820-870
Accuracy (R), cm at 100 m	≤6
Max gas pressure, MPa (kgf/cm ²)	\$303.8 (3100)
Bullet weight, g	47.4-49.0
Cartridge weight, g	130-137
Powder charge weight, g	17
Cartridge length, mm	147
Grade powder	4/7
Case material	Brass
Armor penetration, 100 m	20 mm(perpendicular plate)

14.5x114 mm Cartridge with BZT Bullet (57-BZT-561S)

This cartridge is used for target designation, fire correction, and ignition of flammable targets. It effectively engages lightly armored ground targets up to 1,000 m, emplacements and targets behind light barriers, infantry and vehicles up to 2,000 m, and low-flying air targets at altitudes up to 2,000 m. Fired from KPV, KPVT, PKP, SKP machine guns, and IST-14.5 anti-material rifles. The bullet tip is painted red and violet.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	14.5x114
Muzzle velocity, m/s	995-1015
Accuracy (R), cm at 100 m	100m ≤7
Max mean gas pressure, MPa (kgf/cm ²)	3300
Bullet weight, g	58.5-60.5
Powder charge weight, g	30
Cartridge weight, g	178-188
Cartridge length, mm	156.
Tracer range, m.	2000
Armor penetration at 20" (20 mm plate), m	100
Grade powder	5/7
Case material	Steel

14.5x114 mm Cartridge with B-32 Bullet (57-BZ-561S)

Designed for engaging lightly armored vehicles, field fortifications, and low-flying aircraft, this cartridge is used in heavy machine guns (KPV, KPVT) and anti-aircraft systems (ZPU-1 to ZPU-4), as well as IST-14.5 antimateriel rifles. The B-32 bullet combines armor-piercing and incendiary effects, with a distinctive red and black tip.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	14.5x114
Muzzle velocity, m/s	970-1010
Accuracy (R), cm at 100 m	58,7
Max gas pressure, MPa (kgf/cm ²)	≤323.6 (3300)
Bullet weight, g	63-64,8
Cartridge weight, g	31
Powder charge weight, g	185-195
Cartridge length, mm	156
Grade powder	100
Case material	5/7
Armor penetration, 100 m	Steel

9x18 mm Pistol Blank Cartridge (57-N-181 B)

9x18 mm blank cartridge (57-N-181 B) is used for training, sound simulation, and testing of automatic firing mechanisms. It contains no projectile and requires a blank-firing adapter.

<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	9x18
Cartridge weight, g	4.2
Cartridge length, mm	23 ±1.0
Case material	Steel
Operating temperature range	-15°C to +40°C



7.62 mm Blank Cartridge (57-Kh-231)

Used in training to simulate fire with 7.62x39 mm weapons. Requires a muzzle plug to function properly in gas-operated firearms and to break the dummy bullet.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	7.62x39
Cartridge weight, g	7.7-8.7
Powder charge weight, g	0.77
Cartridge length, mm	47,2-48,2
Grade powder	P-125
Case material	Steel or brass

5.45 mm Blank Cartridge (7Kh3)

5.45 mm blank cartridge (713) is used to imitate firing sound. It fits all 5.45 mm weapons. A muzzle plug is required to build up sufficient gas pressure to operate the weapon's mechanism and disintegrate the dummy bullet, which is painted white.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	5.45x39
Cartridge weight, g	6.8
Bullet weight, g	0.24
Powder charge weight, g	1.0
Cartridge length, mm	57
Grade powder	Sf 033fl (SB-620)
Case material	Steel

7.62 mm Rifle Blank Cartridge (57-Kh-340)

Rifle blank cartridge used with 7.62x54 mm rifles for training. Requires special muzzle and internal devices to function effectively



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	7.62x54R
Cartridge weight, g	11
Powder charge weight, g	1.25
Cartridge length, mm	53.7-1
Grade powder	Xar
Case material	Steel or brass

12.7x108 mm Blank Cartridge (7-H-1)

Used in training to simulate firing from large caliber machine guns like NSV-12.7, KORD. Requires blank firing devices including muzzle attachments and internal inserts



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	12.7x108
Cartridge weight, g	77,8-85
Powder charge weight, g	10
Cartridge length, mm	112
Grade powder	P-125
Case material	Brass

14.5x114 mm Blank Cartridge (57-H-561)

Designed to simulate fire from weapons using 14.5 mm ammunition. Used with blank firing devices including modified extractors and internal components



<u>PARAMETER</u>	<u>VALUE</u>
Caliber, mm	14.5x114
Cartridge weight, g	114.5
Powder charge weight, g	18
Cartridge length, mm	117.2
Case length, mm	114
Grade powder	VTJ
Case material	Steel

23x152 mm Round with HEI-T Projectile

The 23x152 Round with Practice HEI (High Explosive Incendiary) Projectile is intended for drill firing and gun ballistic tests. The round has the same ballistic characteristics as the HEI rounds and is intended to replace them in target-practice firing. It is compatible with guns 2A14, 2A14M, 2A7, and 2A7M on ZU-23-2 and ZSU-23-4 SHILKA mounts. The ammunition ensures reliable performance in all weather conditions and is safe during storage and handling.



BASIC CHARACTERISTICS:

Caliber: 23x152 mm

Operating Temperature Range: -60°C to +50°C

Shelf Life: 15 years (10)

BALLISTIC DATA:

Muzzle Velocity: 970 ±10 m/s

Probable Deviation: ≤8 m/s

Average Pmax: ≤2925 kg/cm²

ELEMENTS OF ROUND:

Projectile: Practice HEI

Fuze: Dummy

Propellant: 5/7 CI

Cartridge Case: Steel

Primer: KV NP3

TECHNICAL DATA:

Length of Round: 234.28-237.12 mm

Weight of Round: 0.450 kg

Weight of Projectile: 1.885 ±0.0035 kg

Length of Cartridge Case: 151.5-mm

Weight of Cartridge Case: 0.172 ±0.008 kg

Propellant Charge Mass: 0.077 kg

23x152 mm Practice HEI Projectile

The 23 mm round is intended to defeat aerial targets, enemy manpower, and equipment. It is used in twin-barrel AA guns ZU-23-2 and quad-barrel AA mounts ZSU-23-4 SHILKA. It features a High Explosive Incendiary Tracer (HEI-T) projectile and reliable point-detonating fuze. The round ensures stable operation in all weather conditions and is safe for transport, storage, and handling.



BASIC CHARACTERISTICS:

Caliber: 23x152 mm

Operating Temperature Range: -50°C to +50°C

Shelf Life: 15 years

BALLISTIC DATA:

Muzzle Velocity: 970 $\pm$ 10 m/s

Probable Deviation: <8 m/s

Average Pmax: $\leq$ 2925 kgf/cm²

ELEMENTS OF ROUND:

Projectile: HEI-T

Fuze: UT-M88 SP

Explosive Charge: 18.4 g (A-IX-2)

Tracer Burning Time: 23 s

Propellant: 5/7 CI

Cartridge Case: Steel

Primer: KV NP3

TECHNICAL DATA:

Length of Round: 234.28-237.12 mm

Weight of Round: 0.450 kg

Weight of Projectile: 1.885 $\pm$ 0.0035 kg

Length of Cartridge Case: 161.5.0 mm

Weight of Cartridge Case: 0.172 $\pm$ 0.008 kg

Propellant Charge Mass: 0.077 kg

30x165 mm Practice HE-T Projectile

The 30x165 Round with Practice HE-T (High Explosive Tracer) Projectile is intended for practice firing. The projectile is inert and contains no explosive. The ammunition is safe for transport, storage and handling, and ensures reliable performance of the gun systems in all weather conditions. It is used in automatic guns 2442, 2438, 2A72, and their modifications, installed on infantry fighting vehicles, reconnaissance vehicles, air-defense systems, and attack helicopters.



BASIC CHARACTERISTICS:

Caliber: 30x165 mm

Operating Temperature Range: -50°C to +50°C

Shelf Life: 15 years

BALLISTIC DATA:

Muzzle Velocity: 960-970 m/s

Probable Deviation: ≤ 5 m/s

Average Pmax: 3600 kgf/cm²

ELEMENTS OF ROUND:

Projectile: Practice High Explosive Tracer

Fuze: Dummy

Explosive Filling: Inert sulfur mixture

Propellant: 6/7 P-5BPI

Cartridge Case: Steel

Primer: KV-3-1

TECHNICAL DATA:

Length of Round: 288.45-291.84 mm

Weight of Round: 0.835 kg

Length of Projectile: 147.5 mm (147.5)

Weight of Projectile: 0.385 $\pm$ 0.006 kg

Length of Cartridge Case: 165 mm

Weight of Cartridge Case: 0.321 $\pm$ 0.010 kg

Propellant Charge Mass: 0.122 kg

Burning Time of Tracer: 210 sec

30x165 mm Round with Practice HEI Projectile

The 30x165 Round with Practice HEI (High Explosive Incendiary) Projectile is intended for practice firing. The projectile is inert and contains no explosive. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions. It is used with automatic guns 2442, 2438, 2472 and modifications on infantry fighting vehicles, reconnaissance vehicles, air-defense systems, and attack helicopters.



BASIC CHARACTERISTICS:

Caliber: 30x165 mm

Operating Temperature Range: -50°C to +50°C

Shelf Life: 15 years

BALLISTIC DATA:

Muzzle Velocity: 950-970 m/s

Probable Deviation: 55 m/s

Average Pmax: ≤3600 kgf/cm²

ELEMENTS OF ROUND:

Projectile: Practice High Explosive Tracer

Fuze: Dummy

Explosive Filling: Sulfur mixture

Propellant: 6/7 P-5BP

Cartridge Case: Steel

Primer: KV-3-1

TECHNICAL DATA:

Length of Round (max): 289-293 mm

Weight of Round: 0.842 kg

Weight of Projectile: 0.389 ±0.0006 kg

Length of Cartridge Case: 165-mm

Weight of Cartridge Case: 0.321 ±0.010 kg

Propellant Charge Mass: 0,123 ±0.0003 kg

30x165 mm Practice AP-T Projectile

The 30x165 Round with Practice AP-T (Armor Piercing Tracer) Projectile is intended for practice firing. The projectile is inert and contains no explosive. The ammunition is safe in transport, storage and handling and ensures the reliable performance of the gun systems in all weather conditions. It is fired from 2A42, 2A38, 2A72 guns installed on infantry fighting vehicles, reconnaissance vehicles, air-defense complexes, and attack helicopters.



BASIC CHARACTERISTICS:

Caliber: 30x165 mm

Operating Temperature Range: -50°C to +50°C •

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity: 960-980 m/s

Probable Deviation: ≤5 m/s

Average Pmax: ≤3600 kgf/cm²

ELEMENTS OF ROUND:

Projectile: Practice High Explosive Incendiary

Fuze: Dummy

Explosive Filling: Sulfur mixture

Propellant: 6/7 P-5BP

Cartridge Case: Steel

Primer: KV-3-1

TECHNICAL DATA:

Length of Round (max): 292.84-mm

Weight of Round: 0.858 kg

Length of Projectile: 148.5-2 mm

Weight of Projectile: 0.400 ±0.006 kg

Length of Cartridge Case: 185 mm

Weight of Cartridge Case: 0.321 ±0.010 kg

Propellant Charge Mass: 0.123 ±0.003 kg

URQN Training Simulation Hand Grenade

The URON training grenade is designed for instructing personnel in proper hand grenade throwing techniques. Simulating the RQD-5 grenade in form and function, the URON provides realistic training through visual and acoustic effects upon detonation, without creating lethal fragmentation. The grenade is equipped with a UZRQM fuze and is safe for controlled training environments



<u>PARAMETER</u>	<u>VALUE</u>
Overall height	128±2.5 mm
Body diameter (max)	55 mm
Fuze delay	3.2-4.2 s
Sound and smoke effect	Yes
Weight (complete grenade)	345 ± 10 g
Simulation fuse weight	65±2g
Simulation body weight	19±2g
Fuze type	UZRQM

RGN Hand Grenade

Offensive Hand Grenade

The RGN hand grenade is intended for offensive operations, designed to eliminate enemy personnel and suppress firing points. It features a UDZ fuze with a short arming time and controlled delay, delivering a concentrated fragmentation effect over a wide area.



<u>PARAMETER</u>	<u>VALUE</u>
Throwing distance (average)	40-50 m
Arming delay (UDZ fuze)	1.0-1.8 s
Fuze delay	3.2-4.2 s
Number of fragments	220
Average fragment weight	0.42 g
Lethal area	100 m ²
Overall height	114±2 mm
Diameter	max 61 mm
Weight (complete grenade)	0.31 ± 0.02 kg
Explosive charge weight	0.114 ± 0.01 kg
Fuze type	UDZ

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Overall height	114±2 mm
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Weight (complete grenade)	0.31 ± 0.02 kg
Explosive charge weight	0.114 ± 0.01 kg
Fuze type	UDZ

F-1 Hand Grenade

Defensive Fragmentation Hand Grenade

The F-1 hand grenade is intended for defensive combat use to neutralize enemy personnel. Due to its high fragmentation effect, it is designed to be thrown only from behind cover, inside armored vehicles (APCS), or tanks. The grenade ensures effective suppression in enclosed and fortified zones.



<u>PARAMETER</u>	<u>VALUE</u>
Fuze delay	3.2-4.2 s
Lethal area	up to 82 m ²
Number of fragments	up to 300 pcs
Throwing distance (average)	35-45 m
Overall height	127 mm
Diameter	55 mm
Weight (complete grenade)	0.6 kg
Explosive charge weight	0.06 kg

Bouncing Air Burst Grenade VOG-25P (40 mm)

The 40 mm Round with Fragmentation Bouncing Grenade VOG25P provides effective action against enemy troops in open terrain or in light shelters at distances from 40 up to 400 m. The grenade is self-contained and equipped with a distance-armed, self-destruct fuze. It ensures safe operation, storage, and reliable performance in all weather conditions.



FUZE:

Type: Point Detonating, SQ action, Distance-Armed, Self-Destruct
Arming Distance: 10-40 m
Self-Destruction Time: 14-19s

BASIC CHARACTERISTICS:

Maximum Firing Range: 400 m
Effective Bursting Radius: 26 m
Jump Height: 0.5-1.5m
Operational Temperature Range: -50°C to +50°C
Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity: 76 m/s
Probable Deviation: 1 m/s
Average Pressure (max): 78.4 MPa

TECHNICAL DATA:

Length of Round (max): 122 mm
Weight of Round: 0.278 kg
Weight of Explosive Charge: 0.037 kg

ELEMENTS OF GRENADE:

Fuze: VMG-P or FSD1
Grenade Body: Steel
Explosive Filling: A-IX-1 (RDX)
Propellant: P-200
Primer: KVM-3

Smoke Round M99

(40x46 mm)

The 40x46 mm Smoke Round M99 is intended to provide a smoke screen or to mark targets at distances up to 400 meters. It is compatible with various under-barrel and stand-alone grenade launchers and ensures effective signaling and concealment capabilities under a wide range of environmental conditions.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	40 mm
Round Mass	236 g
Grenade Mass	186 g
Round Length	106 mm
Delay Time	2-4 s
Smoke Time	30 s
Smoke Type	White
Muzzle Velocity	76 m/s
Firing Range	50-400 m
Operating Temperature Range	-30°C to +50°C
Weapon Compatibility	M203, M79, RBG 40 mm/6M11, MGL MK1, HK69A1, F2000 or similar

HE Round M99 (40x46 mm)

The 40x46 mm M99 High Explosive Round is designed to defeat enemy troops and unarmored vehicles at distances up to 400 m. The round is compatible with a wide range of shoulder-fired grenade launchers and ensures reliable performance across harsh environmental conditions.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	40 mm
Round Mass	245 g
Grenade Mass	192 g
Round Length	48 g
Delay Time	max 104.5 mm
Smoke Time	78 m/s
Smoke Type	Vp <= 0.25m Vs <= 0.35m
Muzzle Velocity	400 m
Firing Range	25 m
Operating Temperature Range	-42°C to +63°C
Weapon Compatibility	M203, M79, RBG 40 mm/6M11, MGL MK1, HK69A1, F2000 or similar

M04 Illuminating Round with Parachute (40 mm)

The M04 illuminating round is used for target marking, signaling and battlefield illumination in night or low-visibility conditions. It contains a parachute-deployed flare that produces intense white light, ensuring long-range visibility. The round is compatible with a wide range of under-barrel and stand-alone grenade launchers



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	40 mm
Round Mass	250 g
Grenade Mass	200 g
Delay Time	2.5-3.5 s
Burning Time	20 s
Light Intensity	80,000 cd
Operating Temperature Range	-30°C to +50°C
Weapon Compatibility	RBG 40 mm/6M11, MSGL, M79, M203, HK69A1, F2000 or similar

M99 HEDP Round (40 mm)

The M99 HEDP (High-Explosive Dual Purpose) round is designed to defeat enemy personnel and light armored targets. It combines fragmentation and armor-penetration capabilities and is used with various shoulder-fired grenade launchers at ranges up to 400 m.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	40 mm
Round Mass	252 g
Grenade Mass	200 g
Explosive Mass	42 g
Round Length	106.5 mm
Muzzle Velocity	78 m/s
Armor Penetration (steel)	60 mm
Effective Bursting Radius	25 m
Max Range	400 m
Vertical Precision at 100 m	$V_v \leq 0.35m$ $V_p \leq 0.25m$
Operating Temperature Range	-42°C to +63°C
Weapon Compatibility	RBG 40 mm/6M11, MSGL, M79, M203, HK69A1, F2000 or similar

GG-7A Round with Fragmentation Grenade

The GPD-30 High Explosive round is intended for AGS-30 automatic grenade launcher systems. It is designed to defeat enemy personnel and light military equipment in open terrain. The round includes a point-detonating fuze with self-destruct capability, offering effective range and fragmentation lethality under various operational conditions.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	30 mm
Round Length	132.3 mm
Round Weight	0.340 kg
Muzzle Velocity	(185 plus/minus m) / s
Explosive Charge Mass	0.040 kg
Effective Firing Range	2100 m
Fuze	Point Detonating (M99)
Effective Bursting Radius	6 m
Fuze Arming Distance	10-60 m
Self-Destruction Time	25 s
Weight of Booster Charge	0.003 kg
Max Powder Pressure	50kg / c * m ^ 2

GPD-30 Grenade Launcher Round (30 mm)

The GG-7A is an anti-personnel grenade round used with RPG systems to neutralize enemy troops, light vehicles, and fortifications. It features a super-quick point detonating fuze that functions independently of the angle of impact, ensuring detonation even on ricochet. The grenade contains A-IX-1 high explosive for lethal fragmentation effect within a wide radius.

SPECIFICATIONS:

Maximum Range: 700 m

Muzzle Velocity @ 15°C: 150 plus/minus 10 * m / s

Round Weight: 21 ±0.030 kg

Operating Temperature Range: - 90 deg C to +50 deg C

GRENADE (GG-7):

Caliber: 40 mm

Length (with fuze): 425 mm

Weight: 1.710 ±0.025 kg

Explosive Type: A-IX-1 (RDX)

Explosive Mass: 0.295 ±0.010 kg

Lethal Radius: >22 m

Fuze Type: Super-quick point detonation, non-ricochet



GG-7A IN Round with Practice Grenade

The GG-7A IN is the inert training version of the GG-7A antipersonnel round, designed for instructional and simulation use with identical weight and dimensions to the live variant. It allows for realistic training in RPG launcher operation without explosive risk.

SPECIFICATIONS:

Maximum Range: 700 m

Muzzle Velocity @ 15°C: 150 ±10 m/s

Round Weight: 21 ±0.030 kg

Operating Temperature Range: -40°C to +50°C

GRENADE (GG-7IN):

Caliber: 40 mm

Length: 425 mm

Weight: 1.710 ±0.025 kg

Filling: INERT



AT-7V Round with AT-7

The AT-7V is an anti-tank grenade round designed to destroy tanks, self-propelled guns, and field fortifications. It is fired from RPG-type launchers, including the TOQ-7V2 and RPG-7V systems. The round contains a shaped charge warhead capable of penetrating up to 500 mm of steel armor. It is effective in various battlefield conditions and ensures reliable performance across temperature extremes.

SPECIFICATIONS:

Launcher Caliber: 40 mm

Warhead Caliber: 93 mm

Round Weight: 2.600 kg

Grenade Weight: 2.200 kg

Propellant Charge: 0.390 kg

Muzzle Velocity: 112 m/s

Direct Fire Range: 250 m

Direct Sighting Range: 300 m

Armor Penetration: 500 mm

Operating Temperature Range: -40°C to +50°C

Firing Rate: 4-6 shots/min

Packing: 6 rounds per case

Case Dimensions (mm): 899x498x294

Gross Weight per Case: 38 kg



PG-7VLT Round with PG-7LT Tandem HEAT Grenade

The PG-7VLT is a tandem High-Explosive Anti-Tank grenade round designed to neutralize armored targets equipped with Explosive Reactive Armor (ERA). It is fired from RPG-type launchers such as RPG-7V, TƏQ-7V2, RPG-7DN-1, and RPG-7DN-3, and includes a precursor and main shaped charge for increased penetration effectiveness.

SPECIFICATIONS:

Launcher Caliber: 40 mm
HEAT Warhead Caliber: 93 mm
Precursor Warhead Caliber: 50 mm
Round Weight: 3.290 kg
Grenade Weight: 2.900 kg
Propellant Charge: 0.300 kg
Muzzle Velocity: 90 m/s
Direct Fire Range: 220 m
Sighting Range: 250 m
Armor Penetration (ERA): >500 mm
Operating Temperature Range: -40°C to +50°C
Firing Rate: 4-6 shots/min
Packing: 6 rounds per case
Case Dimensions (mm): 1136 x 474 x 307
Gross Weight per Case: 50 kg



AT-7V IN Round with Practice Grenade

The AT-7V IN is an inert training version of the AT-7V anti-tank grenade round. It replicates the external dimensions, weight, and ballistic characteristics of the live round, ensuring safe and effective training for RPG-7V and TƏQ-7V2 launcher systems

SPECIFICATIONS:

Launcher Caliber: 40 mm
Warhead Caliber: 93 mm
Round Weight: 2.600 kg
Grenade Weight: 2.200 kg
Propellant Charge: 0.300 kg
Muzzle Velocity: 112 m/s
Operating Temperature Range: -40°C to +50°C
Firing Rate: 4-6 shots/min
Packing: 6 rounds per case
Case Dimensions (mm): 899 x 498x204
Gross Weight per Case: 38 kg



VUS-17 Training Round (30x29 mm)

The VOG-17IN is an inert training round used for simulating real combat in automatic grenade launcher systems. It provides safe, realistic instruction and is compatible with AGS-17, AGS-30, AG-17A, AGK-30, ARCUS-17 AGL, and M93 launchers



BASIC CHARACTERISTICS:

Caliber: 30x29 mm

Maximum Firing Range: 1700 m

Operational Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity: 185 m/s

Probable Deviation: 2.5 m/s

Average Pressure (max): 1200 kgf/cm² (122.5 MPa)

TECHNICAL DATA:

Length of Round: 132 mm

Weight of Round: 0.35 kg

ELEMENTS OF GRENADE:

Fuze: Ballistic Plug

Explosive Filling: Inert

Cartridge Case: Steel

Propellant: NBpl 14-10

Primer: KVM-3

60 mm Mortar Bombs -High Explosive & Practice

These 60 mm mortar bombs are designed for both operational use and training. The HE version is intended for engaging troops in open terrain or light shelters, while the practice version is designed for instructional use. Both variants are compatible with NATO-standard 60 mm smooth-bore mortars including M2, M19, M224, Hirtenberger "Commando", C-08, C-576, and 20N6M. The bombs provide reliable performance under diverse environmental conditions.



BASIC CHARACTERISTICS:

Caliber: 60 mm

Maximum Range: 3200 m

Operating Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity (max): 195 +5 m/s

Maximum Pressure: 441 kg/cm²

TECHNICAL DATA:

Length of Mortar Bomb (fuzed): 300 mm

Weight of Mortar Bomb (fuzed): 1.6 kg

Weight of Explosive Charge: 0.2 kg

ELEMENTS OF GRENADE:

Fuze: M-6H or AZ111A2/Dummy

Body: Cast iron

Explosive Filling: TNT

Number of Charges: 1 + 4 Increment charges

60 mm High Explosive Long Range / Practice Mortar Bombs

These mortar bombs are designed for long-range engagement and training applications using 60 mm smooth-bore long-range mortars compliant with NATO standards. The HE version is used to target enemy personnel and light field fortifications, while the practice variant provides realistic instructional use. Ammunition ensures stable performance under all weather conditions.



BASIC CHARACTERISTICS:

Caliber: 60 mm

Maximum Range: 4000 m

Operating Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity (max): 172 ±7 m/s

Maximum Pressure: 611 kg/cm²

TECHNICAL DATA:

Length of Mortar Bomb (fuzed): 351 mm

Weight of Mortar Bomb (fuzed): 1.84 kg

Weight of Explosive Charge: 0.3 kg

ELEMENTS OF GRENADE:

Fuze: M-6H or AZ111A2 or Dummy

Body: Cast iron

Explosive Filling: TNT

Number of Charges: 1+6 Increment charges

81 mm/82 mm Practice Mortar Bomb

The 81 mm/82 mm Practice Mortar Bomb is designed for training purposes and simulates the live ammunition in weight and dimensions. It is compatible with 81 mm/82 mm smooth-bore mortars, ensuring safe instruction and functional realism under all operational conditions.



BASIC CHARACTERISTICS:

Caliber: 81 mm/82mm

Maximum Range (increment): 3000 m

Maximum Range (long range): 4500 m

Operating Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity (max): 211 m/s

Maximum Pressure: 450 kgf/cm²

TECHNICAL DATA:

Length of Mortar Bomb: 300 mm

Weight of Mortar Bomb: 3.2 ±0.000 kg

ELEMENTS OF GRENADE:

Fuze: Dummy

Body: Cast iron

Number of Charges: 1+3 Increment or long range charges

81 mm/82 mm High Explosive Mortar Bomb

This 81 mm/82 mm High Explosive Mortar Bomb is designed to defeat enemy personnel, shelters, and lightly armored targets. It is compatible with standard 81 mm and 82 mm smooth-bore mortars. The bomb delivers effective fragmentation and is safe to handle, transport, and operate in all environmental conditions.



BASIC CHARACTERISTICS:

Caliber: 81 mm/82 mm

Maximum Range (with increment): 3000 m

Maximum Range (long range): 4500 m

Operating Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity (max): 211 m/s

Maximum Pressure: 450 kgf/cm²

TECHNICAL DATA:

Length of Mortar Bomb (fuzed): 332.5 mm

Weight of Mortar Bomb (fuzed): 3.2 ±0.09 kg

Weight of Explosive Charge: 0.454 kg

ELEMENTS OF GRENADE:

Fuze: M-6

Body: Cast iron

Explosive Filling: TNT or TD-42

Number of Charges: 1+3 Increment or long range charges

120 mm Practice Mortar Bomb

The 120 mm Practice Mortar Bomb is used for training purposes with 120 mm smooth-bore mortars. It replicates the size and ballistic properties of a live high-explosive round without an explosive payload. The bomb is suitable for realistic instructional use under all environmental conditions and ensures safe storage and handling.



BASIC CHARACTERISTICS:

Caliber: 120 mm

Maximum Range (Increment): 5800 m

Maximum Range (Long Range): 7100 m

Operating Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity (max): 272 m/s

Max Pressure: 1030/1300 kgf/cm²

TECHNICAL DATA:

Length of Mortar Bomb (fuzed): 673 mm

Weight of Mortar Bomb: 16.07 ±0.050 kg

ELEMENTS OF GRENADE:

Fuze: Dummy

Body: Cast iron

Number of Charges: 1+6 increment
or Long Range Charges

120 mm High Explosive Mortar Bomb

The 120 mm High Explosive Mortar Bomb is designed to defeat enemy troops, shelters, and light armored targets. Compatible with standard 120 mm smoothbore mortars, this ammunition ensures effective fragmentation impact under all environmental and operational conditions.



BASIC CHARACTERISTICS:

Caliber: 120 mm

Maximum Range (Increment): 5800 m

Maximum Range (Long Range): 7100 m

Operating Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity (max): 272 m/s

Maximum Pressure: 1030/1300 kgf/cm²

TECHNICAL DATA:

Length of Mortar Bomb (fuzed): 673 mm

Weight of Mortar Bomb (fuzed): 16.07 ±0.050 kg

Weight of Explosive Charge: 1.36 kg

ELEMENTS OF GRENADE:

Fuze: M-12

Body Cast: iron

Explosive Filling: TD-50

Number of Charges: 1+6 Increment or
Long Range Charges

BETAB-250

The BETAB-250 is a 250 kg free-fall concrete penetration aviation bomb designed to destroy fortified enemy structures. It is specifically intended for striking concretecovered constructions, underground depots, shelters, and armored decks of ships. The bomb delivers concentrated destructive power, capable of piercing reinforced targets at depth before detonation

CALIBRE -	250kg
DIAMETER -	273 mm
MASS OF EXPLOSIVE	590.5kg



KEY PARAMETERS:

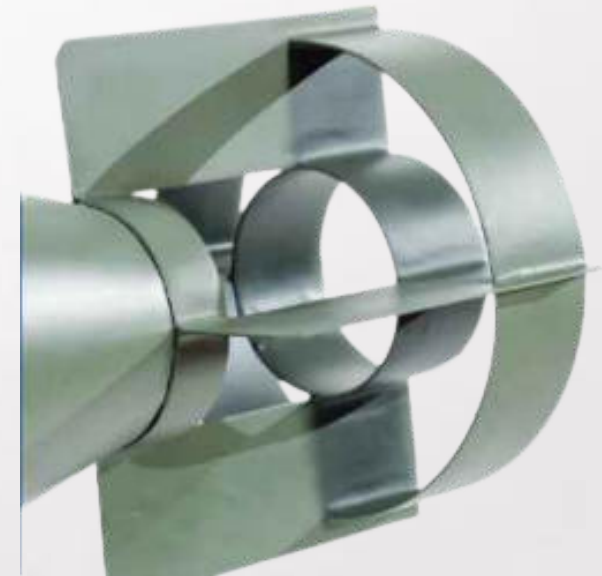
Calibre: 250 kg

Length: 1608-1615 mm

Diameter: 273 mm

Armor-penetration: 0.4-11 m

Mass of explosive: 59 ± 0.5 kg



QFAB-250

The QFAB-250 LGD is a laser-guided 250 kg high-explosive fragmentation bomb with enhanced targeting precision. It is designed to destroy enemy military equipment, artillery systems, vehicles, aircraft on the aerodrome, industrial infrastructure, depots, bridges, and manpower by delivering a powerful fragmentation effect with controlled impact accuracy

CALIBRE -	250 kg
DIAMETER -	325 mm
MASS OF EXPLOSIVE	59±0.5 kg



KEY PARAMETERS:

Calibre: 250 kg

Flying distance (maximum): 12.000 m

Flight speed: 0.71 MACH

Length: 3322 + 150 mm

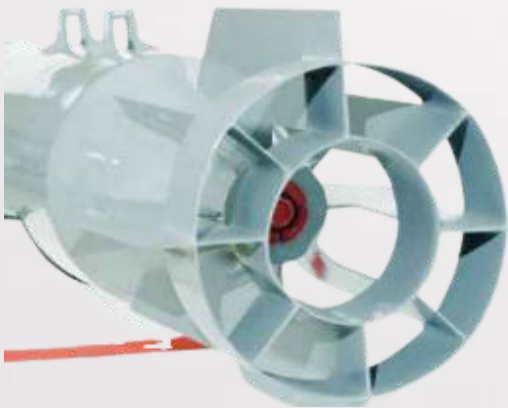
Diameter: 325 mm

Mass: 301.5 $\pm$ 20 kg

Mass of explosive: 59 $\pm$ 0.5 kg

Number of submunitions: 3240 pcs

Deviation: $\leq$ 10m



High-Explosive Round M79 (130 mm)

The M79 High-Explosive (HE) round is intended for defeating enemy troops, artillery, anti-missile systems, and fortifications in open terrain or shelters. It is also suitable for breaching minefields and engineering obstacles. The round is compatible with 130 mm artillery guns using either full or reduced variable powder charge cartridge cases.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	130 mm
Type	M79
Round Mass (with fuse)	33.4 kg
Explosive Charge Weight	3.668 kg
Length of Round (with fuse)	674.06 mm
Fuse	M7281
Cartridge Case with FPC	M46
Cartridge Case with RVPC	M46
Muzzle Velocity (FPC)	930 m/s
Muzzle Velocity (RVPC)	705 m/s
Powder Charge Pressure (Pmsr)	≤3090 bar

M88 High-Explosive Round (152 mm)

The M88 High-Explosive round is designed to destroy enemy personnel, artillery positions, anti-missile systems, and field fortifications. It is also effective for clearing minefields and obstacles. Compatible with 152 mm artillery systems, the round is used with both full and reduced variable powder charges.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	152 mm
Type	M88
Round Mass (with fuse)	43.56 kg
Explosive Charge Weight	5.93 kg
Length of Round (with fuse)	710 mm
Fuse	M72B1
Cartridge Case (FPC)	M77
Cartridge Case (RVPC)	M77
Muzzle Velocity (FPC)	655 m/s
Muzzle Velocity (RVPC)	511 m/s
Powder Charge Pressure (Pmsr)	\$2696 bar

462A1 High-Explosive Round (122 mm)

The 462A1 is a 122 mm high-explosive artillery round intended to destroy enemy manpower, light armored vehicles, field fortifications, and engineering structures. It is compatible with standard 122 mm artillery systems and supports both full and reduced variable propellant charges. The round is sale in storage, handling, and reliable in extreme operational conditions

<u>PARAMETER</u>	<u>VALUE</u>
Caliber	122 mm
Type	462A1
Round Weight (with fuse)	21.76 kg
Explosive Charge Weight	3.61 kg
Length (with fuse)	565.27 mm
Fuse	M72B1
Cartridge Case	M78 (FPC/RVPC)
Muzzle Velocity (FPC)	690 m/s
Muzzle Velocity (RVPC)	565 m/s
Powder Charge Pressure (Pmsr)	≤2450 bar



100 mm Steel Cartridge Case

The 100 mm steel cartridge case is used in artillery systems that require robust, reusable cases for firing high-caliber ammunition. Made from high-strength steel, it ensures mechanical integrity and consistent chamber pressure during repeated firing cycles.

<u>PARAMETER</u>	<u>VALUE</u>
Material	Steel
Weight	8.243 ±0.64 kg
Total Height	913.2 mm
Flange Diameter	0147.46. mm
Mouth Internal Diameter	Ø100 mm



122 mm Steel Cartridge Case

As the workhorse of Soviet-inspired artillery systems, the 122 mm steel cartridge case forms the backbone of divisional-level firepower In howitzers like the D-30 and M-30. Its steel construction with corrosion-resistant coatings withstands the rigors of prolonged field deployment while maintaining consistent ballistic performance. The separate-loading design accommodates variable propellant charges, enabling trajectory optimization for targets at ranges between 5-15 km.



<u>PARAMETER</u>	<u>VALUE</u>
Caliber	122 mm
Material	Steel
Max diameter	147.46 mm
Typical Projectile	HE, Fragmentation, Smoke
Weight (empty)	3.66 plus/minus 0.18 * kg
Volume	5.75dm3
Length	447 mm

130 mm Brass Cartridge Case (for M-46 gun)

The 130 mm brass cartridge case is intended for use with the M-46 field gun. Made of durable brass material, it ensures reliable sealing, structural integrity, and reusability during high-pressure artillery operations.



<u>PARAMETER</u>	<u>VALUE</u>
Parameter	Brass
Material	11.35 kg
Weight	846. mm
Total Height	0185. mm
Flange Diameter	Ø143.33 mm
Mouth Internal Diameter	447 mm

152 mm Brass Cartridge Case (for D-20 gun-howitzer)

The 152 mm brass cartridge case is intended for use with the D-20 gun-howitzer, providing high strength, reliable sealing. and compatibility with high-pressure charges in heavy artillery operations



<u>PARAMETER</u>	<u>VALUE</u>
Material	Brass
Weight	10.7 kg
Total Height	857 mm
Flange Diameter	0223 mm
Mouth Internal Diameter	0190 mm

VUS-17 Dummy Training Round (30×29 mm)

The VUS-17 is a 30x29 mm dummy round used for operator training with automatic grenade launchers. It simulates real ballistic behavior without containing explosives and is suitable for use in various environmental conditions. Compatible launchers include AGS-17, AGS-30, AG-17A, ARCUS-17 AGL, M93, and AGK-30.



BASIC CHARACTERISTICS:

Caliber: 30x29 mm

Maximum Firing Range: 1700 m

Smoke Visibility Time: 10-15 s

Smoke Color: Red, Orange

Operating Temperature Range: -50°C to +50°C

Shelf Life: 10 years

BALLISTIC DATA:

Muzzle Velocity: 186 m/s

Probable Deviation: 2.5 m/s

Average Pressure (max): 1200 kgf/cm² (122.5 MPa)

TECHNICAL DATA:

Length of Grenade: 132 mm

Weight of Round: 0.35 kg

ELEMENTS OF GRENADE:

Fuze: VMG-M or UT M99 SP

Grenade Body: Steel

Propellant: NBpl 14-10

Primer: KVM-3

Shiras-M Simulation Cartridge

The Shiras-M simulation cartridge is developed for training air and artillery reconnaissance personnel. It creates a realistic sound effect simulating an artillery shell burst, thereby enhancing situational awareness and reaction time during tactical drills.



SPECIFICATIONS:

Safety Range from Explosion Site: 225 m

Diameter: 43 mm

Height: 82 ±1 mm

Mass: 145 g

IM82/IM100/IM120 Simulation Cartridge

The IM82/IM100/IM120 simulation cartridges are designed to imitate the sound effect of 82 mm, 100 mm, and 120 mm mortar bomb detonations during tactical training exercises. They create a realistic sonic burst to enhance the combat readiness and situational awareness of troops

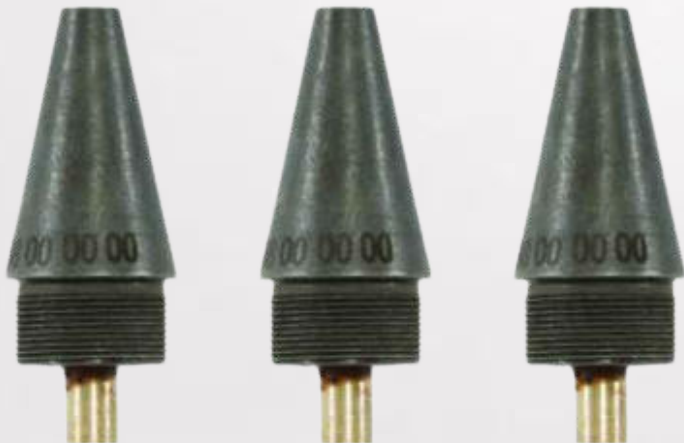


SPECIFICATIONS:

Effect: Sonic bang simulating
82/100/120 mm mortar bomb explosion
Safety Range from Detonation Site: 250 m
Diameter: 43 mm
Height: 82 ±2 mm
Mass: 140g

UT-M88 SP Fuze (for 23x152 mm ammunition)

UT-MB8 SP is a mechanical, nose, point-detonating fuze with de-layed action and integrated self-destruction. It is used with 23x152 mm HEI and HEIT rounds fired from automatic guns 2A14, 2A14M, 2A7, and 2A7M, typically mounted on ZU-23-2 and ZSU-23-4 SHILKA air-defense systems. The fuze is safe in storage, handling, and operation, and provides reliable ammunition function in all weather conditions.



BASIC CHARACTERISTICS:

Action: PD, Delayed

Arming Mechanism: Set-back and rotational forces

Temperature Range (Firing): -50°C to +50°C

Temperature Range (Storage): -50°C to +50°C

Shelf Life: 15 years

TECHNICAL DATA:

Length of Fuze (max): 52.6 mm

Visible Length (max): 31.2 mm

Intrusion Length (max): 21.4 mm

External Diameter (max): 20.0 mm

Weight of Fuze: 37 g

Booster Type: A-30-T

Booster Weight: 1g

Thread Size: Spec. M17.96 x 0.75cl.2a

Fuze UT-M00 SP (for 40 mm HE grenades VOG-25)

The UT-M00 SP is a mechanical point-detonating fuze with super-quick action, used with 40 mm VOG-25 high-explosive grenades. It is armed by set-back and rotational forces and incorporates a self-destruct mechanism. The fuze ensures safe storage and effective operation across a wide range of environmental conditions.

BASIC CHARACTERISTICS:

Action: PD: Super Quick

Arming: Set-back and rotational forces

Muzzle Safety Distance: 215 m

Time of Self-Destruction: 12-20 s

Temperature Range (Firing): -50°C to +50°C

Temperature Range (Storage): -50°C to +50°C

Shelf Life: 10.5 years

TECHNICAL DATA:

Length of Fuze (max): 58 mm

Visible Length (max): 260 mm

Intrusion Length (max): 32 mm

External Diameter (max): 29.7 mm

Weight of Fuze: 60±1.5 g

Type of Booster: A-30-T

Weight of Booster: 1 g

Thread Size: Spec. M28×1-6g



Fuze UT-M01 (for 40x46 mm rounds)

The UT-M01 is a point-detonating instantaneous fuze designed for NATO-type 40x46 mm shoulder-fired grenade launchers, including RBG-type systems. It provides reliable performance across all environmental conditions and ensures rapid detonation upon target impact.

SPECIFICATIONS:

Action: Point Detonating

Self-Destruction Time: 12-20 s

Shelf Life: 15 years

Length of Fuze (max): 50.5 mm

Thread Size: M33×1.5-6g

Weight of Fuze: 64 ±0.15 g

Diameter: 39.8 mm

Operating Temperature Range: -50°C to +50°C



Fuze UT-M99 SP (for 30 mm HE round VOG-17M)

The UT-M99 SP is a point-detonating, super quick fuze used with 30 mm high-explosive rounds VOG-17M. It arms through set-back and rotational forces at a distance and includes a reliable self-destruct mechanism. The fuze provides safe storage and consistent performance in harsh environmental conditions.

BASIC CHARACTERISTICS:

Action: PD, Super Quick

Arming: Distant, by set-back and rotational forces

Muzzle Safety Distance: 210 m

Time of Self-Destruction: 28-36 s

Temperature Range (Firing): -30°C to +50°C

Temperature Range (Storage): -30°C to +50°C

Shelf Life: 10.5 years



TECHNICAL DATA:

Length of Fuze (max): 53 mm

Visible Length (max): 27 mm

Intrusion Length (max): 26 mm

External Diameter (max): 29.7 mm

Weight of Fuze: 48 ±0.5/2 g

Type of Booster: A-30-T

Weight of Booster: 1 g

Thread Size: Spec. M28x1-6 g

M-12 Fuze for 120 mm Mortar Ammunition

M-12 is a mechanical, nose, point-detonating fuze with selectable super-quick or delayed action, used with 120 mm High-Explosive and Smoke mortar bombs. It features a highly sensitive impact mechanism and functions effectively on solid ground, marshy surfaces, and snow. The fuze is safe in storage, handling, and ensures reliable functioning of ammunition under all weather conditions.



BASIC CHARACTERISTICS:

Action: PD, SQ or Delayed

Arming: Set-back forces

Muzzle Safety Distance: 2 m

Time of Delay: 0.008-0.015 s

Temperature Range (Firing): -40°C to +50°C

Temperature Range (Storage): -40°C to +50°C

Shelf Life: 15 years

TECHNICAL DATA:

Length of Fuze (max): 121.39 mm

External Diameter (max): 40.0 mm

Weight of Fuze: 534 g

Type of Booster: Tetryl

Weight of Booster: 12.5 g

Thread Size: Spec. 36.18 x 10 tpi

M-6 Fuze for Mortar Ammunition

The M-6 is a mechanical, nose, point-detonating fuze with super-quick action, used with 82 mm High-Explosive and Smoke mortar bombs. It ensures reliable detonation upon impact across various terrain types and is safe in storage, handling, and field conditions.

BASIC CHARACTERISTICS:

Action: PD, Super Quick

Arming: Set-back forces

Muzzle Safety Distance: ≥ 10 m

Temperature Range (Firing): -50°C to $+50^{\circ}\text{C}$

Temperature Range (Storage): -50°C to $+50^{\circ}\text{C}$

Shelf Life: 15 years

TECHNICAL DATA:

Length of Fuze (max): 83.39 mm

External Diameter (max): 40.0 mm

Weight of Fuze: 168 g

Type of Booster: Tetryl

Weight of Booster: g

Thread Size: Spec. 36,18 x 10 tpi



Colored Smoke Can

The Colored Smoke Can is designed to mark disaster zones, signal positions, or provide visual alerts in various operational environments. It produces dense, vividly colored smoke for short durations and is available in multiple color options for clear visibility.

SPECIFICATIONS:

Parameter: Value

Smoke emission duration: Not less than 30 seconds

Smoke colors: Red, Green, Yellow Purple, White

Height: max 120 mm

Diameter: 48 mm

Weight: 185 ±10g



Electric Smoke Puff Charge

The Electric Smoke Puff Charge is used to simulate the sound bursts of artillery shell explosions during tactical training. It produces a distinct sonic bang at height and serves as a realistic indicator of indirect fire effects for personnel training

SPECIFICATIONS:

Sonic Bang Altitude: 45-65 m

Range of Audibility: Up to 2 km

Safe Radius: 30 m

Diameter: 64 mm

Height: ≤ 150 mm

Mass: 415 ± 10 g



Smoke Puff Charge

The Smoke Puff Charge is designed to simulate the sound of artillery shell explosions during tactical exercises. It is activated by time delay and generates a loud burst to indicate indirect fire effects, enhancing the realism of training scenarios.

SPECIFICATIONS:

Actuation Time: 8.5+1 s

Range of Audibility: <2 km

Safe Radius: 210 m

Diameter: 33 +2 mm

Height: 70 ±2 mm

Mass: 54 12 g



26 mm Illumination / Signal Cartridge

The 26 mm illumination cartridge is designed to illuminate surrounding areas and objects within a specified perimeter, typically during night operations. It is launched from a signal pistol at an angle of 45-50°, providing a bright, short-duration light source for tactical or emergency use.

SPECIFICATIONS:

Launch angle: 45-50°

Maximum flight distance: 120 m

Illumination duration: up to 7s

Illumination radius (at night): up to 100 m

Length: max 80 mm

Diameter: max 26.8 mm

Weight: 51 ± 2g



30 mm Signal Cartridges

The 30 mm signal cartridges are used for signaling and coordination within and between military units. Emitting bright red, green, or yellow star signals, these cartridges provide high-visibility cues suitable for both day and night operations.

SPECIFICATIONS:

Launch angle: 70-80

Flight distance: 150 m

Illumination duration: 8-10 s

Visibility range (night): up to 10 km

Visibility range (day): up to 2 km

Luminous intensity: 10,000 cd

Light colors: Red, Green, Yellow

Length: 230 mm

Diameter: 32 mm

Weight: 160 g





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