40 MM GRENADES

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GRENADE 40mm x 46 HEPD-SD M99

NATO DESIGNATION	HEPD-SD
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	104
MASS OF GRENADE (g)	250
PROJECTILE LENGTH (mm)	82
MASS OF PROJECTILE (g)	200
MASS OF EXPLOSIVE (RDX) (g)	48
MUZZLE VELOCITY (m/s)	78
ARMING DISTANCE OF FUZE (m)	8 to 30
MAXIMUM RANGE (m)	400
SELF DESTRUCTION (s)	15 to 20

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 53kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 HEDP-SD M99 (Dual Purpose)

NATO DESIGNATION	HEDP-SD
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	104mm
MASS OF GRENADE (g)	250
PROJECTILE LENGTH (mm)	82
MASS OF PROJECTILE (g)	200
MASS OF EXPLOSIVE (RDX) (g)	35
MUZZLE VELOCITY (m/s)	78
ARMING DISTANCE OF FUZE (m)	8 to 30
MAXIMUM RANGE (m)	400
SELF DESTRUCTION (s)	15 to 20
PENETRATION (mm)	min 25 (armour steel plate)

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 53kg
W/C dimensions: 540 x 400 x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 TPSFM M99

NATO DESIGNATION	TPSFM
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	104
MASS OF GRENADE (g)	233
PROJECTILE LENGTH (mm)	82
MASS OF PROJECTILE (g)	181
MUZZLE VELOCITY (m/s)	76
ARMING DISTANCE OF FUZE (m)	8 to 25
MAXIMUM RANGE (m)	max 400
SELF DESTRUCTION (s)	15 to 20

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 53kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 RED STAR WITH PARACHUTE - M04

NATO DESIGNATION	RED STAR WITH PARACHUTE
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	114
MASS OF GRENADE (g)	250
PROJECTILE LENGTH (mm)	82
MASS OF PROJECTILE (g)	200
MUZZLE VELOCITY (m/s)	78
DELAY TIME (s)	2 to 3
BURNING TIME OF STAR (s)	min 15
LIGHT INTENSITY OF STAR (cd)	min 10000
THE HIGH OF PARACHUTE OPENING DURING FIRING AT THE ANGLE OF 45° (DEGREES) (m)	min 150
FLARE TYPE	green, blue, yellow, white

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 58kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 ILLUMINATING WITH PARACHUTE - M04

NATO DESIGNATION	ILLUMINATING WITH PARACHUTE
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	114
MASS OF GRENADE (g)	250
PROJECTILE LENGTH (mm)	82
MASS OF PROJECTILE (g)	200
MUZZLE VELOCITY (m/s)	78
DELAY TIME (s)	2 to 3
BURNING TIME OF STAR (s)	min 15
LIGHT INTENSITY OF STAR (cd)	min 80000
THE HIGH OF PARACHUTE OPENING DURING FIRING AT THE ANGLE OF 45° (DEGREES) (m)	min 150

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 58kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 SMOKE WHITE - M99

NATO DESIGNATION	SMOKE WHITE
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	106
MASS OF GRENADE (g)	230
PROJECTILE LENGTH (mm)	76
MASS OF PROJECTILE (g)	180
MUZZLE VELOCITY (m/s)	78
DELAY TIME (s)	2 to 3
SMOKE TIME (s)	min 20
FIRING RANGE (m)	50 to 400
FLARE TYPE	white, red. green, yellow

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 54kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 SMOKE CS - M99

NATO DESIGNATION	
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	106
MASS OF GRENADE (g)	220
PROJECTILE LENGTH (mm)	76
MASS OF PROJECTILE (g)	170
MUZZLE VELOCITY (m/s)	78
DELAY TIME (s)	2 to 3
SMOKE TIME (s)	min 20
FIRING RANGE (m)	50 to 400

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 54kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 STUN - M99

NATO DESIGNATION	
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	106
MASS OF GRENADE (g)	230
PROJECTILE LENGTH (mm)	76
MASS OF PROJECTILE (g)	180
MUZZLE VELOCITY (m/s)	78
DELAY TIME (s)	2 to 3
FIRING RANGE (m)	50 to 400
SOUND INTENSITY (db)	120

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 54kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 BUCKSHOT - M04

NATO DESIGNATION	
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	106
MASS OF GRENADE (g)	250
PROJECTILE LENGTH (mm)	76
MASS OF PROJECTILE (g)	190
MUZZLE VELOCITY (m/s)	50
FIRING RANGE (m)	30
NUMBER OF PELLETS	min 24
PELLET DIAMETER (mm)	8

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 56kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 FLASH - M99

NATO DESIGNATION	
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	106
MASS OF GRENADE (g)	230
PROJECTILE LENGTH (mm)	76
MASS OF PROJECTILE (g)	180
MUZZLE VELOCITY (m/s)	78
DELAY TIME (s)	2 to 3
FIRING RANGE (m)	50 to 400
SOUND INTENSITY (db)	120
LIGHT INTENSITY (cd)	2000000

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 54kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

GRENADE 40mm x 46 FLECHETTE - M05

NATO DESIGNATION	
CALIBER (mm)	40
COMPLETE GRENADE LENGTH (mm)	106
MASS OF GRENADE (g)	250
PROJECTILE LENGTH (mm)	76
MASS OF PROJECTILE (g)	200
MUZZLE VELOCITY (m/s)	50
FIRING RANGE (m)	50 to 100
NUMBER OF FLECHETTES (pcs.)	min 50
LENGTH OF FLECHETTES (mm)	50
FLECHETTE DIAMETER (mm)	2

PACKING:

3 grenades is packed in a polyethylene bag
54 polyethylene bags into a cardboard box or wooden case
Case gross mass: 56kg
W/C dimensions: 540mm x 400mm x 348mm
Case volume: 0,066m^3

ROUND 40mm HE M03

NATO DESIGNATION	HE
CALIBER (mm)	40
MASS (g)	225
LENGTH (mm)	106
MUZZLE VELOCITY (m/s)	76
MAXIMUM RANGE (m)	400
FUZE	
type	UT - M00 SD
self destruction (s)	15 - 20
fuze safe action limit (m)	50
safety distance (m)	15 m in front of barrel
GRENADE EFFECTS	Must have min 80 penetrations through a board 20mm thick, at pen test D=20m and 1,5m high
ACTION OF FRAGMENTS IN FIELD (mm)	100mm in dia.

PACKING:

3 grenades is packed in a polyethylene bag
21 polyethylene bags into a cardboard box or wooden case
Case gross mass: 24kg
W/C dimensions: 455mm x 375mm x 221mm
Case volume: 0.03m^3

ROUND 40mm ILL, M01

NATO DESIGNATION	ILLUMINATING
CALIBER (mm)	40
MASS (g)	265
LENGTH (mm)	130
MUZZLE VELOCITY (m/s)	76
STAR BURNING TIME (s)	min. 20
LIGHT INTENSITY (cd)	80000
RANGE OF PARACHUTE OPENING AT FIRING UNDER 45° (m)	250

PACKING:

3 grenades is packed in a polyethylene bag
21 polyethylene bags into a cardboard box or wooden case
Case gross mass: 24kg
W/C dimensions: 455mm x 375mm x 221mm
Case volume: 0,03m^3

ROUND 40mm S, M01

NATO DESIGNATION	SMOKE
CALIBER (mm)	40
MASS (g)	250
LENGTH (mm)	115
MUZZLE VELOCITY (m/s)	75
MAXIMUM RANGE (m)	400
SMOKE DURATION (s)	60

PACKING:

3 grenades is packed in a polyethylene bag
21 polyethylene bags into a cardboard box or wooden case
Case gross mass: 24kg
W/C dimensions: 455mm x 375mm x 221mm
Case volume: 0,03m^3

40mm Bullet with Blasting Projectile

Designed to be used against live force, in both open and sheltered space. It is fired from grenade launcher GP-25 mounted under the barrel of the Kalashnikov machinegun (AK-74, AKS-74, AKM, AK-101) as well as new M21 rifles produced by "Zastava" Kragujevac. This bullet can be fired directly (holding the device on the shoulder) to the range 50 to 400m, and indirectly (curved trajectory) to the range 200 to 350m.

- Caliber ..... 40 mm
- Round mass .....260 g
- Round length ....105 mm
- Explosive charge FH-5.....49 g
- Muzzle velocity .....76,5 m/s
- Powder charge weight .....0,6 g
- Max pressure of powder gases..... 900 bar.
- Vertical target accuracy at 150 m
  - per height Vv < 0,5 m
  - per direction Vp < 0,5 m
- Max. range .....400 m
- Accuracy at max range
  - per distance Vdt <14m
  - per direction Vpt < 7m
- Casualty radius ..... min. 9 m
- Fuse .....UT, M02 SP
- Muzzle safety .....min. 15 m
- Burning time of self-destruction device.....15^{+5}s
- The fuse has interrupted initial chain
- Bullet and fuse are waterproof
- Temperature range .....- 53° C to +71° C
- Suitable for all kinds of transportation

PACKING

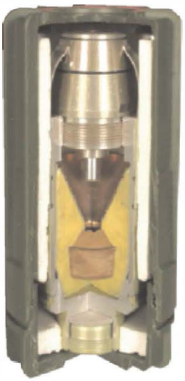
- The bullet is packed in hermetically sealed plastic container
- 40 containers are packed in wooden boxes
- Box dimensions ..... 59,6 x 36,6 x 19,6 cm
- Total mass ..... 23,5 kg
- Total volume ..... 0,043 m^3

40mm Bullet with Blasting Bounding Projectile, M07

Designed to be used against live force, in both open and sheltered space.
It is fired from grenade launcher GP-25 and GP-30 mounted under the barrel of the Kalashnikov machinegun (AK-74, AKS-74, AKM, AK-101) as well as new M21 rifles produced by "Zastava" Kragujevac.
This bullet can be fired directly (holding the device on the shoulder) to the range 50 to 400m, and indirectly (curved trajectory) to the range 200 to 350m.

- Caliber ..... 40 mm
- Round mass .....300 g
- Round length ....125 mm
- Explosive charge FH-5.....40 g
- Muzzle velocity .....75 m/s
- Powder charge weight .....0,6 g
- Vertical target accuracy at 150 m
  - per height Vv < 0,5 m
  - per direction Vp < 0,5 m
- Max. range .....400 m
- Accuracy at max range
  - per distance Vdt <14m
  - per direction Vpt < 7m
- Casualty radius ..... min. 6 m
- Fuse .....UT, M07
- Muzzle safety .....min. 15 m
- Burning time of self-destruction device.....15^{+5} s
- The fuse has interrupted initial chain
- Bullet and fuse are waterproof
- Temperature range .....- 53° C to +71° C
- Suitable for all kinds of transportation

40mm Bullet with Cumulative Projectile



Intended for use against light armour combat and non -combat vehicles at distances up to 150m. Beside this primary cumulative effect, there is also the secondary effect on enemy live force.
The bullet is fired from under-barrel grenade launcher 40mm GP-25, mounted under the barrel of Kalashnikov machinegun (AK-74, AKS-74, AKM, AK -101), as well as new M21 rifles produced by "Zastava"Kragujevac.

- Caliber ..... 40 mm
- Round mass..... 260 g
- Round length.....108 mm
- Explosive charge..... 32 g
- Muzzle velocity..... 76,5 m/s
- Mass of the powder charge..... 0,6 g
- Max. pressure of powder gases..... 900 bar
- Penetration through steel plate
  under the angle of 90°..... min.50 mm
- Vertical target accuracy at 150 m
  - per height Vvt < 0,5 m
  - per direction Vpt < 0,5 m
- Max. range.....400 m
- Accuracy at max. range
  - per distance Vdt < 14m
  - per direction Vpt < 7m
- Fuse..... UT,M02 SP
- Casualty radius.....min. 3 m
- Muzzle safety..... ..... min. 15 m
- Safe activation distance..... 50 m
- Burning time of self-destructing device..... 15^{+5}s
- The fuse has interrupted initial chain
- Bullet and fuse are waterproof
- Temperature range..... -53° C to +71° C
- The bullet is packed in hermetically sealed plastic container, 40 containers are packed in wooden box
- Suitable for all kinds of transportation

40mm Bullet with Incendiary Projectile

Intended for incending easily inflammable materials as well as wounding enemy live force. The fragments of incediary mixture can wound or inflame easily inflammable materials at distance up to 5m. The bullet is fired from under-barrel grenade launcher 40mm GP-25, mounted under the barrel of Kalashnikov machinegun (AK-74, AKS-74, AKM, AK -101), as well as new M21 rifles produced by "Zastava"Kragujevac. This bulet can be fired directly (holding the device on shoulder), to the range 50 to 400m, and indirectly (curved trajectory), to the ranges 200 to 350m.

- Caliber ..... 40 mm
- Round mass..... 260 g
- Round length.....105 mm
- Mass of smoke mixture..... 80 g
- Muzzle velocity..... 76,5 m/s
- Mass of the powder charge..... 0,6 g
- Max. Pressure of powder gases..... 900 bar
- Vertical target accuracy at 150 m
  - per height Vvt < 0,5 m
  - per direction Vpt < 0,5 m
- Max. range.....400 m
- Accuracy at max range
  - per distance Vdt < 14m
  - per direction Vpt < 7m
- Fuse..... UT,M02 SP
- Muzzle safety..... ..... min. 15 m
- Safe activation distance..... 50 m
- Burning time of self-destructing device..... 15 s
- The fuse has interrupted initial chain
- Bullet and fuse are waterproof
- Temperature range..... -53°C to +71°C
- The bullet is packed in hermetically sealed plastic container, 40 containers are packed in wooden box
- Suitable for all kinds of transportation

40mm Bullet with Smoke Projectile

Intended for marking ground targets as well as blinding enemy live force. The cloud made after the smoke mixture is incended is compact, with diameter of min. 3m. The smoke cloud can last 15 to 30s, and in normal weather conditions is visible at 2-3 km distance. The bullet is fired from under-barrel grenade launcher 40mm GP-25, mounted under the barrel of Kalashnikov machinegun (AK-74,AKS-74,AKM, AK -101), as well as new M21 rifles produced by "Zastava" Kragujevac. This bullet can be fired directly (holding the device on shoulder), to the range 50 to 400m, and indirectly (curved trajectory), to the ranges 200 to 350m.

- Caliber ..... 40 mm
- Round mass..... 260 g
- Round length.....108 mm
- Mass of smoke mixture.....100 g
- Muzzle velocity..... 76,5 m/s
- Mass of the powder charge..... 0,6 g
- Max. Pressure of powder gases..... 900 bar
- Vertical target accuracy at 150 m
  - per height Vvt < 0,5 m
  - per direction Vpt < 0,5 m
- Max. range.....400 m
- Accuracy at max range
  - per distance Vdt < 14m
  - per direction Vpt < 7m
- Fuse..... UT,M02 SP
- Muzzle safety..... min. 15 m
- Safe activation distance..... 50 m
- Burning time of self-destructing device..... 15^{+5}s
- The fuse has interrupted initial chain
- Bullet and fuse are waterproof
- Temperature range..... -53°C to +71°C
- The bullet is packed in hermetically sealed plastic container, 40 containers are packed in wooden box
- Suitable for all kinds of tranportation

40mm Bullet with Practice Projectile

Intended for training of soldiers for all tactical actions carrying out with live projectile. The smoke mixture markes the spot where the projectile has fallen, and the released gases can be seen from the distance of 500m. The bullet is fired from under -barrel grenade launcher 40mm GP-25, mounted under the barrel of Kalashnikov mashinegun (AK-74, AKS-74, AKM, AK -101), as well as new M21 rifles produced by "Zastava" Kragujevac. This bullet can be fired directly (holding the device on sholder) to the range 50 to 400m, and indirectly (curved trajectory), to the range 200 to 350m.

- Caliber..... 40 mm
- Round mass..... 260 g
- Round length.....105 mm
- Mass of incendiary mixture..... 10 g
- Muzzle velocity ..... 76,5 m/s
- Mass of the powder charge..... 0,6 g
- Max. pressure of powder gases..... 900 bar
- Vertical target accuracy at 150 m
  - per height Vvt < 0,5 m
  - per direction Vpt < 0,5 m
- Max. range.....400 m
- Accuracy at max range
  - per distance Vdt < 14 m
  - per direction Vpt < 7 m
- Fuse..... UT,M02 SP
- Muzzle safety..... ..... min. 15 m
- Safe activation distance..... 50 m
- Burning time of self-destructing device..... 15 s^{+5}
- The fuse has interrupted initial chain
- Bullet and fuse are waterproof
- Temperature range..... -53°C do + 71°C
- The bullet is placed in hermetically sealed plastic container, 40 containers are packed in wooden boxes
- Suitable for all kinds of transportation.

40mm x 46 Bullet with HE Projectile

Intended for use against live enemy force, in both opened and sheltered space. The bullet is fired from under-barrel grenade launcher 40mm M203, M79, HK 69A1. It can be used for firing at targets at the distance from 30 to 400m.

- Caliber..... 40 mm
- Round mass.... ..... 190 g
- Round length..... .....103 mm
- Explosive charge..... ..... RDX/TNT
- Number of fragments..... 425
- Muzzle velocity ..... 78,5 m/s
- Vertical target accuracy at 150 m
  - per height Vvt < 0,5 m
  - per direction Vpt < 0,5 m
- Max. range.....400 m
- Casualty radius..... min. 5 m
- Fuse UT,M04
- Muzzle safety..... 8 m
- Safe activation distance..... 30 m
- Burning time of self-destructing device..... 9 s

40mm x 46 Inert Grenade mod. M99

Intended for training of soldiers for all tactical actions carrying out with live projectile. The Grenade is fired from under-barrel grenade launcher 40 mm M203, M79, HK 69A1 and similar launchers. It can be used for firing at the targets at distance to 400m.

- Caliber..... 40 mm
- Round mass..... 235 g
- Round length..... 91 mm
- Explosive charge..... not
- Number of fragments..... not
- Muzzle velocity ..... 76,5 ±2 m/s
- Vertical target accuracy at 100 m
  - per height Vvt < 0,5 m
  - per direction Vpt < 0,5 m
- Max. range.....400 m
- Casualty radius..... Not applicable
- Fuse ..... not
- Muzzle safety..... Not applicable
- Safe activation distance..... Not applicable
- Burning time of self-destructing device..... Not applicable
- Operational temperature range..... -30° to +50°C
- Shelf life..... 2 years

PACKING:
3 grenades in a plastic bag, 63 plastic bags/189 psc grenades/ in a wooden case.
Weight of the case..... 49 kg
Dimensions..... 1055 x 335 x 203 mm
Volume..... 0,072 m³