

7.62 x 51 mm BLANK (Star)

Cartridge 7.62 x 51 mm Blank for use in any NATO Standard 7.62 mm caliber weapons, new or old, in single short or burst in diverse field conditions.

TECHNICAL DATA

Length	67.7 ~ 68.7 mm.
Weight	13.0 gms. (approx.)
Propellant	Single Base P 3
Material	Brass

PACKING

20 rounds packing in a carton.
50 cartons (1000 rds.) packed in a steel box.
Net weight 14 kg. Gross weight 21 kg.
Size of box 42.5 x 16.5 x 29.5 cm
The packages are supplied with the standard marking.



7.62 x 51 mm Rifle Grenade

Use in Rifle G-3 with Grenade Hand ARGES P1 MK-1

TECHNICAL DATA

Length	51.562 mm. (Max.)
Weight	14.6 gms. (Max.)
Propellant	Single Base Propellant NC-1055
Material	Brass

PERFORMANCE

Muzzle Velocity	50 m/sec. with sleeve at 7.50 meters. sleeve wt. 767.20 gm.
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PACKING

20 rounds packing in a carton.
50 cartons (1000 rds.) packed in a steel box.
Net weight 13.25 kg. Gross weight 20 kg.
Size of box 42.5 x 16.5 x 29.5 cm
The packages are supplied with the standard marking.



7.62 x 54 mm BALL & TRACER

It is available in two denomaions:

- i. 7.62 x 54 mm Ball
- ii. 7.62 x 54 mm Tracer

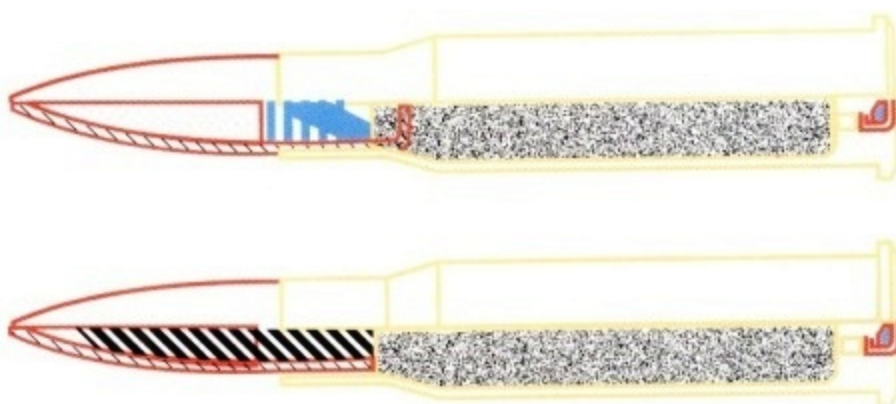
Cartridge 7.62 x 54 mm for use in any 7.62 x 54 mm caliber weapons, new or old, in single short or burst in diverse field conditions.

TECHNICAL DATA				
Caliber	Length	Weight	Propellant	Material
7.62 mm Ball	75.93 ~ 76.70 mm	27.00 gm. (Approx)	Signle Base propellant NC - 1055	Bullet J.: G.M./GMCS Case : Brass
7.62 mm Tracer	75.93 ~ 76.70 mm	26.35 gm. (Approx)	Signle Base propellant NC - 1055	Bullet J.: GMCS Case : Brass

PERFORMANCE		
Caliber	Muzzle Velocity	Accuracy
7.62 mm Ball	823 m/sec. at 27.38 meters.	Mean Radii 254 mm at 457 meters.
7.62 mm Tracer	807 m/sec. at 27.38 meters.	Mean Radii 381 mm at 457 meters.

PACKING

250 rds. linked in one belt.
One belt packed in Tin liner.
02 Tin liners (500 rds.) packed in wooden box.
Outer Packing in a steel box.
Net weight 24 kg. Gross weight 32 kg.
Size of box 42.5 x 26.0 x 23.5 cm



7.62 x 39 mm BALL

Cartridge 7.62 x 39 mm for use in any Standard 7.62 x 39 mm caliber weapons, new or old, in single short or burst in diverse field conditions.

TECHNICAL DATA				
Caliber	Length	Weight	Propellant	Material
7.62 mm Ball	55.0 ~ 56.0 mm.	17.45 ~ 18.40 gms. (Approx)	Signle Base propellant NC-39	Bullet J.: GMCS Case : GMCS

PERFORMANCE	
Muzzle Velocity	732 ~ 747 m/sec. at 2 meters.
Accuracy (R 50)	Mean Radii 50 mm at 200 meters.

PACKING	
ii.	25 rounds packing in a carton. 10 cartons (250 rds.) packed in sealed PVC bag. 07 PVC bag (1750 rds.) packed in steel box. Net weight 32 kg. Gross weight 39 kg. Size of box 42.5 x 16.5 x 29.5 cm The packages are supplied with the standard marking.



7.62 x 51 mm BALL & TRACER

It is available in two denomaiaons:

- i. 7.62 x 51 mm Ball
- ii. 7.62 x 51 mm Tracer

Cartridge 7.62 x 51 mm for use in any NATO Standard 7.62 mm caliber weapons, new or old, in single short or burst in diverse field conditions.

TECHNICAL DATA				
Caliber	Length	Weight	Propellant	Material
7.62 mm Ball	70.36 ~ 71.12 mm	23.976 gm. Approx	Signle Base propellant NC-1055 (PCB)	Bullet J.: G.M. Case : Brass
7.62 mm Tracer	70.36 ~ 71.12 mm	23.392 gm. Approx	Signle Base propellant NC-1055 (PCC)	Bullet J.: GMCS Case : Brass

PERFORMANCE		
Caliber	Muzzle Velocity	Accuracy
7.62 mm Ball	811 m/sec. at 27.43 meters.	Mean Radii 203 mm at 457 meters.
7.62 mm Tracer	794 m/sec. at 27.43 meters.	Mean Radii 305 mm at 457 meters.

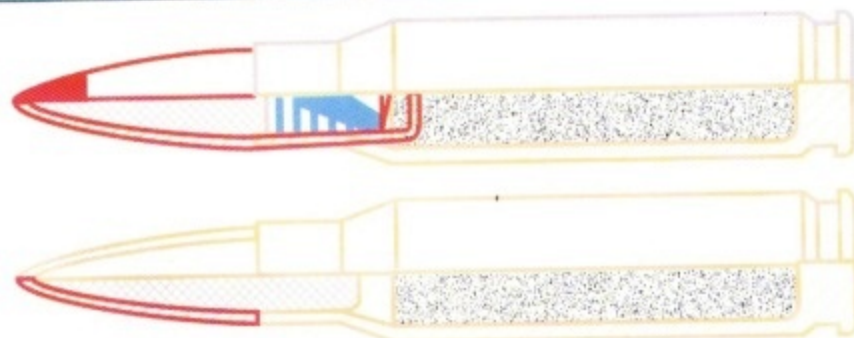
PACKING

7.62mm Ball
for rifle G-3

20 round packing in a carton.
50 carton (1000 rds.) packed in a Ploythene bag.
Outer Packing in a steel box.
Net weight 24 kg. Gross weight 32 kg.
Size of box 42.5 x 16.5 x 29.5 cm

7.62mm Belted
for MG-3

250 rds. linked in one belt DM-1, DM-6 or M-13
one belt packed in Plastic / Steel box.
04 boxes (1000 rds.) packed in a wooden / steel crate.
Net weight 24 kg. Gross weight 39 kg.
Size of box 41.38 x 33.6 x 28.3 cm
The packages are supplied with the standard marking.



5.56 x 45 mm M-193 BALL & M-855 PENETRATOR

It is available in two denominations:

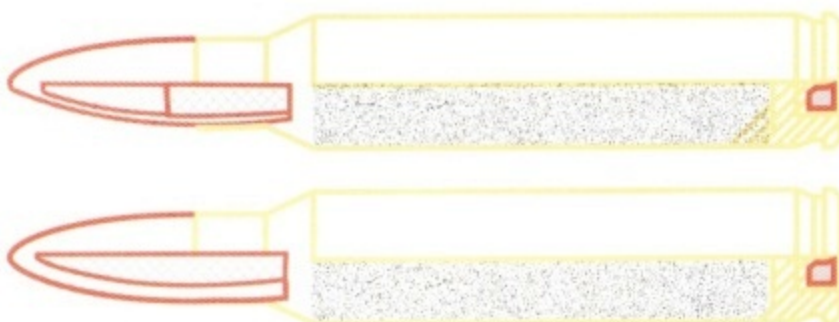
- i. 5.56 x 45 mm Ball M-193
- ii. 5.56 x 45 mm Penetrator M-855

This ammunition is used in any standard 5.56 mm caliber weapon (std.), new or old, in single short or burst in diverse field conditions.

TECHNICAL DATA				
Caliber	Length	Weight	Propellant	Material
5.56 mm Ball	56.76 ~ 57.40 mm	11.08 ~ 11.98 gm.	WC - 844	Bullet J.: GM
5.56 mm Penetrator	56.76 ~ 57.40 mm	11.40 ~ 12.31 gm.	WC - 844	Case : Brass

PERFORMANCE		
Caliber	Muzzle Velocity	Accuracy
5.56 mm Ball	965 m/sec. at 23.77 meters.	Mean Radii 50.8 mm at 183 meters.
5.56 mm Penetrator	914.5 m/sec. at 23.77 meters.	Mean Hor. & Ver. +SD ≤ 45.72 mm at 183 meters.

PACKING	
5.56mm Ball	20 round packing in a carton. 93 carton (1860 rds.) packed in a Ploythene bag. Outer Packing steel box. Net weight 21.5 kg. Gross weight 30 kg. Size of box 42.5 x 16.5 x 29.5 cm
5.56mm Penetrator	20 round packing in a carton. 93 carton (1860 rds.) packed in a Ploythene bag. Outer Packing steel box. Net weight 22 kg. Gross weight 30.5 kg. Size of box 42.5 x 16.5 x 29.5 cm The packages are supplied with the standard marking.



9 x 19 mm BALL (1Z & 2Z)

It is available in two denominations:

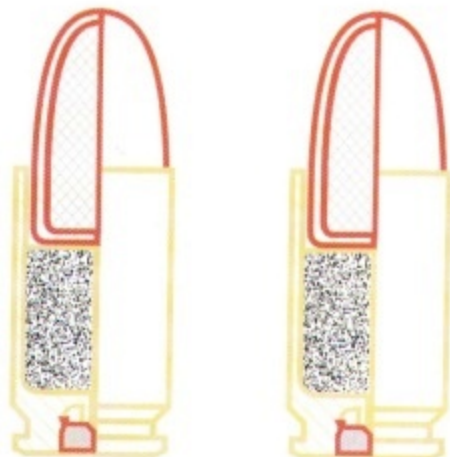
- i. 9 x 19 mm Ball P1 MK1Z Used for Pistol
- ii. 9 x 19 mm Ball MK2Z Used for MP5 A2
(9 mm Machine carbines)

TECHNICAL DATA				
Caliber	Length	Weight	Propellant	Material
9 x 19 mm Ball P1 MK1Z	28.90 ~ 29.69 gm.	12.06 ~ 12.84 gm.	Single Base P 2 PHY	Bullet J.: G.M/GMCS. Case : Brass
9 x 19 mm Ball MK2Z	28.90 ~ 29.69 gm.	12.06 ~ 12.84 gm.	Single Base P 2 PHR	Bullet J.: G.M/GMCS. Case : Brass

PERFORMANCE		
Caliber	Muzzle Velocity	Accuracy
9 mm 1Z	341 m/sec. at 18.28 meter	254 x 152.4 mm
9 mm 2Z	395 m/sec. at 10.00 meter	MFOM 76.2 mm

PACKING

50 round packing in a carton.
 20 carton (1000 rds.) packed in a Tin liner.
 Outer packing in a wooden box.
 Net weight 12 kg. Gross weight 15 kg.
 Size of box 32.0 x 28.0 x 12.7 cm
 The packages are supplied with the standard marking.



SMALL ARMS AMMUNITION

30 Bore

Used for 30 Bore Pistol

TECHNICAL DATA

Length	34.60 ~ 34.70 mm.
Weight	10.20 ~ 10.30 gms.
Propellant	Single Base P2 PHR
Material	
i - Bullet / Jacket	Gilding Metal
ii - Case	Brass

PERFORMANCE

Effective Range	25 meters.
Muzzle Velocity	340 m/sec. at 12 meters.
Accuracy	All shorts must fall within rectangle (25 x 15 cm) at distance of 25 meters.

PACKING

50 rounds packing in a carton with plastic tray.
20 cartons (1000 rds.) packed in a carrugated board box.
Net weight 10.5 kg. Gross weight 12.5 kg.
Size of box 20.5 x 10.5 x 19.0 cm
The packages are supplied with the standard marking.



SATS - 2004

Small Arms Target System

Small Arms Training System (SATS) is designed to automate the Small Arms Firing Ranges and enhance the firing efficiency of soldiers by providing real time information on bullet hit & miss. It can create a real war like environment to the firer and guide him to improve his firing accuracy.

FEATURES

- Easy and swift installation of the system.
- No multiple lines used for communication / control of the targets.
- No electromechanical components like relay switches used.
- System fully controled through software.
- Can be used for both indoor & outdoor firing practice
- Day & Night firing capability available.
- System has Built In Testing (BIT) capability which detects readiness of the system before firing.
- Database Management System (DBMS) available to record the result of the firers for analysis.
- Modular design provide quick field repair.

TECHNICAL SPECIFICATIONS

Communication Range	300M
Communication	Serial via single twisted pair wire
Main console	Laptop or Desktop Pc
Operating system	Windows
Number of targets	24 (max)
Power supply	220 V AC
BIT (Built in Testing)	Available
System combinations	Night & day Firing Capability
Weapon support	All Small Arms e.g.G3, MG3, SMG

