



MUNITIONS INDIA LIMITED

(A Government of India Enterprise)

TANK **AMMUNITION**



ROUND 120 MM FSAPDS MK-II MBT



PURPOSE :

Fin Stabilized Armour Piercing Discarding Sabot (FSAPDS) capable of defeating NATO target upto 2000 mtrs.

CHARACTERISTICS :

Gun (Bore)	120mm Rifled Gun
Mass of the filled Shell	20.840 kg
Length of complete round	998 mm
Filling type in Shell	NO/M 110
Filling Mass	8.5 kg
Weight of	
• SCCC Liner (Set Weight)	0.910 kg
• Steel Cup	3.4 kg
• Primer	0.487 kg
Weight of Projectile	7.30 Kg
Length of Projectile	566 mm
Type of Primer	SCP MK II 'C' NATO
Tracer	Red PMT for MK-II

PERFORMANCE:

Maximum Range	1600-1700 mtrs.
Muzzle velocity	1650 m/sec
Penetrator	Tungsten Heavy Alloy
Penetration capability	515 mm
Shelf Life	10 years

ROUND 120 MM HESH

PURPOSE :

Round 120 mm HESH having high explosive squash head capable of defeating NATO target upto 2000 mtrs.

CHARACTERISTICS:

Gun (Bore)	120mm Rifled Gun
Mass of the filled Shell	22.52 kg
Length of complete round	998 mm
Filling type in Shell	AP/S 400-120
Filling Mass	3.3 kg
Weight of	
• SCCC Liner (Set Weight)	0.790 kg
• Steel Cup	3.4 kg
• Primer	0.620 kg
Weight of Projectile	14.4 kg
Type of Primer	L1 A4 MK-II (NATO)
Type of Fuze	L29 A3 Base Fuze
Tracer	No. 30 MK ½

PERFORMANCE:

Maximum Range	2000 Meters.
Muzzle velocity	736 m/sec
Scab Area	230 mm (Mass of scab 5 kg)
RHA Plate Thickness	120 mm
Weight of scabbed material	5 kg
Shelf Life	10 years



SHELL 125MM HEAT 1A

PURPOSE :

Main role is for direct fire against armored vehicles, SP Guns, Mortars & other heavy armored targets. Effective against targets fitted with protective devices such as skirting plates & girders. It can also be used against bunkers.

CHARACTERISTICS :

Gun (Bore)	125mm Smooth Bore Gun
Mass of the filled Shell	18.401-19.541 Kg.
Filling type in Shell	RDX / WAX(95:5)
Filling Mass	1.661 Kg.
Propellant -	
• Single base propellant 15/1	3 Kg.
• Single base propellant 12/7	2.2 Kg.
Alternatively Triple Base Propellant -	
• NQ/S 400-100	3.00 Kg
• NQ/M 119	2.2 Kg.

PERFORMANCE :

Maximum Range	4000 m
Point blank Range	960 m
Muzzle Velocity +15°C	905 m/s
Armour Thickness defeated at -	
Angle of attack	60°
Normal Effective Penetration	400 mm in RHA plate
Maximum Chamber Pressure	370 ± 7 MPa at 40°C
Rate of Fire	8 Rounds per minute



SHELL 125 MM HE 1A



PURPOSE :

Designed for destroying enemy shelters, vehicles personnel.

CHARACTERISTICS :

Gun (Bore)	125mm Smooth Bore Gun
Mass of the filled Shell	22.575 ± 0.705 kg.
Filling type in Shell	TNT 1E SPL.
Filling Mass	2.95 ± 0.05 Kg.
Propellant - Method of Filling	Screw Filling
<ul style="list-style-type: none"> • Single base propellant 15/1: 3 Kg. • Single base propellant 12/7: 2.2 Kg. 	
Alternatively Triple Base Propellant -	
• NQ/S 400-100	3.00 Kg
• NQ/M 119	2.22 Kg

PERFORMANCE :

Maximum Range	5000 m
Muzzle Velocity +15°C	850 m/s
Maximum Chamber Pressure	430 ± 7 MPa
Rate of Fire	8 Rounds per minute

125MM FSAPDS AMMUNITION

PURPOSE :

125mm FSAPDS ammunition with 3BM42 armor piercing projectile for D81 tank gun is used with T-72 and T-90 Tanks.

CHARACTERISTICS :

Gun (Bore)	125mm Smooth Bore Gun
Weight of Round	20.4 Kg
Length of Projectile	566.9 to 571.4 mm
Weight of Projectile	7.05 Kg
Muzzle Velocity	1700 m/s at 15°C
Standard Deviation	0.35 miles
Density of Hits in Range (max)	≤0.6 m
Density of Hits in Direction (max)	≤0.6 m
Tracer	Visibility min. 3000 m
Bore Pressure	Max 600MPa at +50°C
Armor Penetration Depth	460mm i.e. 230 mm plate at 60°

CHARGE MASS

Propellant	Primary	Secondary
NQ/S 400-100	3.0 Kg.	1.8 Kg.
NQ/m 119	2.34 Kg.	0.95 Kg.

ENVIRONMENTAL CONDITION :

Minimum Temperature for use	- 40°C
Maximum Temperature for use	+50°C
Minimum Temperature for Storage	- 40°C
Maximum Temperature for Storage	+50°C
Maximum Relative Humidity	95%
Average Relative Humidity	65%
Average Annual Temperature	32°C



Munitions India Limited [MIL] is a Defence Public Sector Enterprise [CPSE] under the Ministry of Defence, Government of India.

MIL, the India's biggest manufacturer and market leader is engaged in Production, Testing, Research & Development and Marketing of comprehensive range of ammunition & explosives for Army, Navy, Air force & Para-Military Forces.

With Corporate Office at Pune (India), MIL in its 12 state-of-the-art manufacturing units located across the country employs skilled workforce of around 25,000. These factories have proven integrated base for production of Small, Medium & High calibre ammunition, Mortars, Rockets, Hand Grenades etc. with in-house manufacturing of Initiatory Compositions, Propellants and High Explosives for over 150 years. Our primary objective is to provide competitive edge to the Armed Forces by equipping them with modern and quality battlefield ammunition.

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MIL with its 12 manufacturing units provide :

- A broad and versatile production base with multi-technology capabilities
- State-of-the-art manufacturing facilities
- Large pool of skilled and professionally qualified manpower and managerial personnel
- Strict adherence to quality standards (all units are ISO-9000 certified)
- Original as well as adaptive Research & Development to make need-base refinement and modifications
- A strong base for industrial training & testing

Munitions India Ltd.
Ministry of Defence
(Govt. of India Undertaking)



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