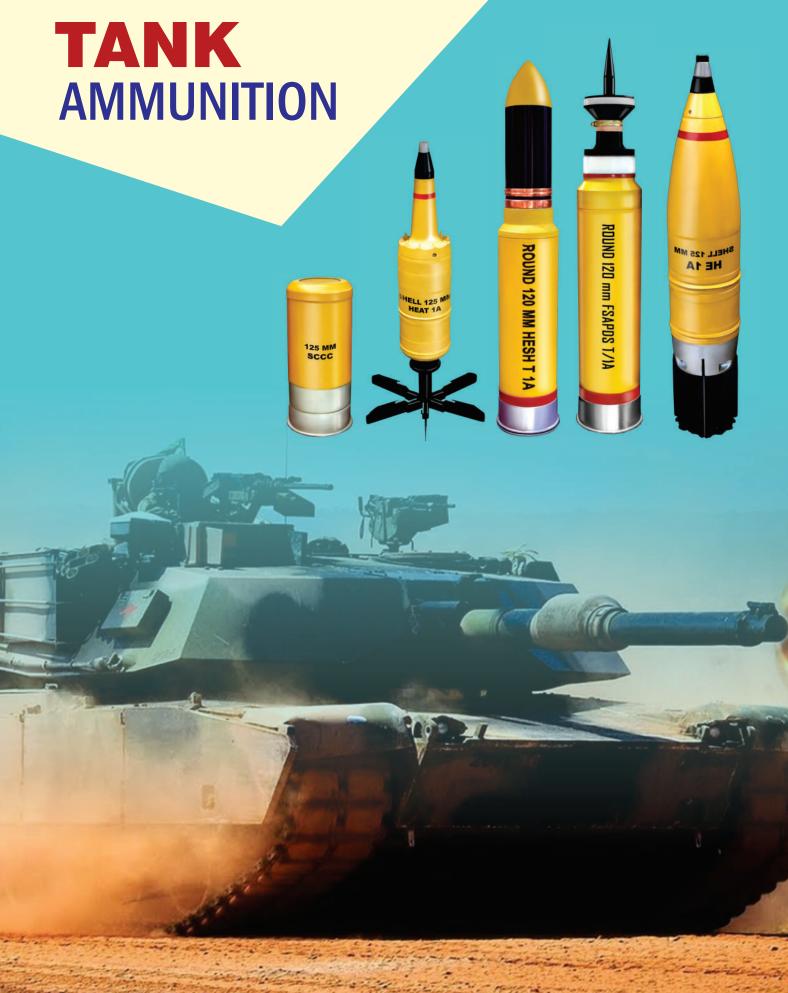


MUNITIONS INDIA LIMITED

(A Government of India Enterprise)



ROUND 120 MM FSAPDS MK-II MBT



PURPOSE:

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

20.840 kg
998 mm
NO/M 110
8.5 kg
0.910 kg
3.4 kg
0.487 kg
7.360 kg
SCP MK II 'C' NATO
Red PMT for MK-II

PERFORMANCE:

Maximum Range	1600-1700 mtrs.
Muzzle velocity	1650 m/sec
Penetrator	Tungsten carbide alloy
Penetration capability	500 mm
RHA Plate Thickness	230 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:

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:

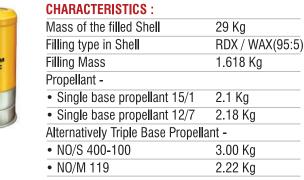
Maximum Range	2000 Meters.	
Muzzle velocity	736 m/sec	
Scab Area	230 mm (Mass of scab	5 kg)
RHA Plate Thickness	120 mm	
Weight of scabbed material	5 kg	
Shelf Life	10 years	



SHELL 125MM HEAT 1A



Main role is for direct fire against Tank, SP Gun, and heavy Armoured targets. Effective against targets fitted with prospective devices such as skirting plates and grids also be used against concrete Bunkers.



PERFORMANCE:

Maximum Range	4000 m
Point blank Range	960 m
Muzzle Velocity +15°C	905 m/s
Armour Thickness defeated at	-
Normal Attack	500 mm
60° Angle of Attack	220 mm
Maximum Chamber Pressure	353MPa at 15°C
Rate of Fire	8 Rounds per minute



SHELL 125 MM HE 1A

SHELL 125 MM HE 1A

PURPOSE:

Designed for destroying enemy shelters, vehicles personnel.

CHARACTERISTICS:

Mass of the filled Shell	23 Kg
Filling type in Shell	RDX / TNT (60:40)
Filling Mass	$3.350 \text{ Kg} \pm 0.050 \text{g}$
Propellant -	
• Single base propellant 15/1:	2.1 Kg
• Single base propellant 12/7:	2.18 Kg
Alternatively Triple Base Prope	llant -
• NO/S 400-100	3.00 Kg
• NO/M 119	2.22 Kg

PERFORMANCE:

Maximum Range	5000 m
Muzzle Velocity +15°C	850 m/s
Maximum Chamber Pressure	412MPa at 15°C
Rate of Fire	8 Rounds per
	minute

125MM FSAPDS AMMUNITION

PURPOSE:

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

CHARACTERISTICS:

Weight of Round	20.4 Kg
Weight of Projectile	7.05 Kg
Initial Speed of Projectile	1700 m/s at 15°C
Standard Deviation	≤0.65 m
Density of Hits in Range (max)	≤0.6 m
Density of Hits in Direction (max)	≤0.6 m
Tracer	Visible up to 1.2sec
Bore Pressure	Max 600MPa at +50°C
Armor Penetration Depth	460mm i.e. 230mm
Density of Hits in Range (max) Density of Hits in Direction (max) Tracer Bore Pressure	≤0.6 m ≤0.6 m Visible up to 1.2sec Max 600MPa at +50°

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.

Our foreign customers include countries located in North America, South America, Europe, Africa and Asia. The patronage we receive from our customers both in India and abroad reflects their faith in quality of our products and services. We are the force behind the Armed Forces.

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



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