



84 mm RCL AMMUNITION



ROUND 84 mm HEAT - 751



Tandem shell provided with both penetrating precursor and main charge of hollow- charges type resulting damage in targets with or without Explosive Reactive Armour (ERA). The shell is provided with rocket motor. The Piezoelectric fuze system based on shock wave communication grants function both at large impact to the normal and in targets, provided with protective armour grids, protruding corners etc.

PHYSICAL CHARACTERISTICS :

Total length of ammunition	760 mm
Total mass of ammunition	3.8 kg
Mass of projectile	2.9 kg
Propellant (ACM)	0.4 kg
Explosive filling in primer (cap)	0.13 gm
Explosive filling in Igniter	15 gm
Explosive filling in Projectile	0.7 Kg.
Explosive filling in fuze	0.410 gm
Net explosive content	1.215 kg
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	210 m/s
Range	500 meters

ROUND 84 mm HEDP - 502

Designed to be used against light concrete & bricks walls and light armored vehicles. The shell has a follow charge warhead filled with cast HMX/TNT which gives good residual effect against armored targets. The Fuze system is designed in such a way that depending on the orientation when loading, the shell will act with instantaneous or delayed function.

PHYSICAL CHARACTERISTICS :

Total length of ammunition	437mm
Total mass of ammunition	3.3 kg
Mass of projectile	2.5 kg.
Propellant (ACM)	0.3 kg
Explosive filling in primer (cap)	0.14 gm
Explosive filling in Igniter	10 gm
Explosive filling in Projectile	0.6 kg
Explosive filling in fuze	6.19 gm
Net explosive content	1 kg
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	225 m/s
Range	500 meters



ROUND 84 mm HEAT 551



The 84mm HEAT Round FFV-551 is designed to be fired in the 84mm RCL CARL-GUSTAF MK-III weapon system. It is a recoilless, multipurpose, man portable light weapon for direct fire. This High Explosive Anti Tank (HEAT) ammunition is intended for use against all types of Armoured Vehicles fitted with protective devices such as striking plates, grids, etc. It is also effective against concrete bunkers, landing craft and similar hard target.

PHYSICAL CHARACTERISTICS :

Total length of ammunition	600 mm
Total mass of ammunition	3.2 kg
Mass of projectile	2.4 kg
Propellant (ACM)	0.4 kg
Explosive filling in primer (cap)	0.13 gm
Explosive filling in Igniter	15.0 gm
Explosive filling in Projectile	0.550 kg
Explosive filling in fuze	0.2 gm
Net explosive content	937 gm
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	255 m/s
Maximum Velocity at 450m	339 m/s
Range	700 m
Time of Flight to 700 m	2.2 sec
Penetration in Solid Armour	400 mm

ROUND 84 mm HE 441B

This ammunition is fired from Gun 84 mm RCL Carl Gustaf M2 from the shoulder. The cartridge combines some of the characteristics of 14LM Rocket and Artillery ammunition in its design. The ammunition is of fixed type and is spin established. This ammunition is intended for use against troops in the open and in slit trenches, machine gun posts soft skinned transport vehicles and similar types of targets. It is fitted with a combined mechanical time and impact fuze

PHYSICAL CHARACTERISTICS :

Total length of ammunition	370 mm
Total mass of ammunition	3.1 kg
Mass of projectile	2.3 kg
Propellant (ACM)	0.4 kg
Explosive filling in primer (cap)	0.13 gm
Explosive filling in Igniter	15.0 gm
Explosive filling in Projectile	0.40 kg
Explosive filling in fuze	3.08 gm
Net explosive content	803.36 gm
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	240 m/s
Range	1000 m
Time of flight at 600 m	2.83 sec



ROUND 84 mm SMOKE 469 C



The Shell contains a special smoke composition based on titanium tetra chloride. The longitudinal projection in the Shell body makes the smoke composition follow the spin of the Shell, giving the Shell stability in the flight. The fuze has function both on direct impact with nose and at small angle of impact. Smoke does not cause fire.

PHYSICAL CHARACTERISTICS :

Total length of ammunition	442 mm
Total mass of ammunition	3.1 kg
Mass of projectile	2.2 Kg.
Propellant (ACM)	0.35 Kg.
Explosive filling in primer (cap)	0.13 gm
Explosive filling in Igniter	15.0 gm
Explosive filling in Projectile	0.8 gm
Explosive filling in fuze	17.68 gm
Net explosive content	1.2 kg
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	240 m/s
Range	1300 m

ROUND 84 mm TPT - 65

This ammunition is fired from Gun 84 mm RCL Carl Gustaf M2 from the shoulder. This ammunition is ballistically identical to the 84 mm HEAT round. Except for a tracer, there is no other explosive in the shell. This round is provided in order to save on the costlier HEAT rounds.

PHYSICAL CHARACTERISTICS :

Total length of ammunition	535 mm
Total mass of ammunition	2.6 kg
Mass of projectile	1.8 kg
Propellant (ACM)	0.4 kg
Explosive filling in primer (cap)	0.13 gm
Explosive filling in Igniter	15.0 gm
Explosive filling in tracer	1.4 gm
Net explosive content	416.53 gm
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	305 m/s
Range against static target	500 m



84 mm ILLUMINATING FFV 545



The illuminating round has been designed to meet the requirement for a very quick illumination of target areas, offering facilities for all types of direct fired weapons and guided anti-tank weapons to engage, Armoured fighting vehicles, support weapons etc. The illuminating round is also intended to facilitate for the sub-units of the battalion, supply of their own illumination of battle field, even continuous, when required.

PHYSICAL CHARACTERISTICS :

Total length of ammunition	450 mm
Total mass of ammunition	3.1 kg
Mass of projectile	2.2 kg
Propellant (ACM)	0.4 kg
Explosive filling in primer (cap)	0.13 gm
Explosive filling in Igniter	15.0 gm
Explosive filling in fuze	18.13 gm
Net explosive content	932.81 gm
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	260 m/s
Range	300 to 2100 m
Height of burst	200 m
Illuminated area, diameter	400-500 m
Candlepower	6,50,000 candela
Burning time	30 + 5 sec

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

MIL, 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 23,000. 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-9001 certified)
- Original as well as adaptive Research & Development
- A strong base for industrial training & testing



Munitions India Limited

(A Government of India Enterprise)

Corporate Office : 2nd Floor Nyati Unitree, Nagar Road, Yerwada, Pune - 411006.

✉ mil@munitionsindia.in exports@munitionsindia.in

🌐 Website : <https://munitionsindia.in>

🐦 @indiamunitions 📺 munitions india limited

📞 +91 - 20 - 67080400 / 67080414 / 67080440



Please Scan Code or
visit website