



84 mm RCL AMMUNITION



ROUND 84 mm HEAT - 651



This ammunition is fired from Gun 84 mm RCL Carl Gustaf M2 from the shoulder. The cartridge combines some of the characteristics of Rocket and Artillery ammunition in the design. The ammunition functions on the principle of shaped charge. The ammunition is of Swedish design.

PHYSICAL CHARACTERISTICS :

Total length of ammunition	538 mm
Total mass of ammunition	2.8 kg
Mass of projectile	1.6 kg
Propellant (ACM)	0.36 kg
Explosive filling in primer (cap)	0.14 gm
Explosive filling in Igniter	15.0 gm
Explosive filling in Projectile	0.5 kg
Explosive filling in fuze	20.2 gm
Net explosive content	896.746 gm
Shelf life of the ammunition	10 years

PERFORMANCE CHARACTERISTICS :

Muzzle velocity	305 m/s
Killing range against moving target	450 m
Killing range against static target	550 m
Penetration	
a) Homohard armour (normal attack)	400 mm
b) RCC target	1000 mm

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



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 make the smoke composition follow the spin of the Shell giving the Shell stability in the flight. The fuze have 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	2.27 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	0.8 kg
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



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

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	254 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	350 mm



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	0.8 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	2.45 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



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