

NAVAL **AMMUNITION**



MUNITIONS INDIA LIMITED







CARTG 30MM AK-630 HEI/HET/PRACTICE

The Indigenous 30mm ammunition for AK 230 gun has the following three variants:

a) Cartridge 30 mm HE Rounds with HE Shell and Nose fuze

DASD (Direct Action and Self - destruction)

b) Cartridge 30 mm PRACTICE Round with inert shell and PRF

(Plug Representing Fuze)

c) Cartridge 30 mm TRACER Round with tracer shell and ballistic cap

SPECIFICATIONS

used



CARTRIDGE OF 40MM L/60 NAVAL

• It is anti aircraft ammunition mounted on Bofors or similar automatic guns.

SPECIFICATIONS

Total length of ammunition	447 mm
Total mass of ammunition	2.1 kg
Mass of Projectile	0.9 kg
Propellant (ACM)	0.4 kg
Muzzle velocity	869 + 10 m/sec
Rate of fire	12 rounds min
Maximum range @45"	9830 meters
Armor class 'B' Penetration	11 mm
from 5500 meters	



CARTG 76.2MM NAVAL HE AND PRACTICE

This Ammunition is designed to fight against enemy Aircraft / ships from Warship. It is made in two versions. Cartg. 76.2 mm HE Fuzed with variable time fuze for combat purpose and Cartg. 76.2 mm Practice used for practice purpose.

SPECIFICATIONS

Total length of Ammunition	815.5 mm
Total Mass of Ammunition	15.30 kgs (Approx.)
Weight of Projectile (Filled) and with PRF	5.9 kgs (Approx.) ± 0.045 kg
Propellant	2P/H 109
Muzzle Velocity	994.5 m/s
Rate of firing	90 Rds/min
Maximum Range	6900 m (approx.)



CARTG 76.2MM NAVAL HEPF

SPECIFICATIONS

Total Length of Ammunition	815.5 mm
Total Mass of Ammunition	13.10 kgs to 13.40 kgs (approx)
Weight of Projectile with fuze	5.9 kgs ±0.045 kgs
Type of fuze	Radio proximity or Direct Action
Muzzle velocity	980 m / sec
Pressure	4250 ± 80 Kg/cm 2
Prop. Of charge mass	2.895 kgs
Volume of Cartg case	3800 C.C.
Wt of Cartg case	3.580 kgs
Rate of Firing	
- AK 176	90 rds / min
- AK 726	180 rds / min
Max Range	15.5 km



CARTG. 76/62 SRGM

SPECIFICATIONS

Mass of Round	12.5 Kg (nominal)
Length of Round	907mm
Muzzle velocity	905+/- 5 M/sec, Sd Not
	More Than 3 M/sec
Pressure	3792 Kg/sq Cm [305 Mpa (mean)]
Max. Pressure At 60°C	3975 Kg/sq Cm
Range	16000m
Dispersion Over 500m At +21°C	< 1m Vertically & 1m Horizontally

Components

Cartg Case	70/30 Brass
Propellant	Single Base
	(Triple Base Propellant Na2pm
	is Being Used For TP & TPT For
	The Initial Indent)



KAVACH/ CHAFF ROCKETS

- Used as soft kill missle counter measure or defence system
- Designed for dispensing Chaff payload at designated ranges

SPECIFICATIONS

Parametere	KAVACH ROCKET		
	1	2	3
	SRCR	MRCR	LRCR
Caliber	98.00mm	105.00mm	105.00mm
Muzzle velocity	80m/s	450m/s	450m/s
Range	150m	2000m	1000m



RGB 60 ROCKET

- Rocket is used against under water target
- Fuze YDB-60 is used in Anti-Submarine Rocket RGB-60.
- Time Mode:- by timer mechanism at preset depth
- Direct Action mode : On striking the target
- Sympathetic mode: activated by shock waves due to explosion of adjacent anti-submarine Rocket.

SPECIFICATIONS

Diameter	0.212 m
Length	1830 mm
Explosive	Torpex 4 -A
Range	350 m to 5500 m
Fuze	YDB 60
Motor	2 stage
Rate of sinking	11.5 m/s
Launcher	RBO - 6000 (RussianSystem) and
	Indian indigenous Rocket
Length of Fuze	361mm
Max. Diameter of Fuze	135mm
Weight of Fuze	6.5 kg
Sinking Rate of Rocket RGB-60	11.6 m/s



MINE MAINDEKA

SPECIFICATIONS

Diameter	310 mm,
Height	135 mm
Weight	6.00 kgs
Explosive weight	810 gms
Type of explisive	RDX/TNT 60:40 TYPE B
Arming Delay	
- Mechanical	Min. one min. (not to be set)
- Electronic	Max. 9999 min. in steps of one minute.
Max. Operating Depth	50 meters.
	30 Meters.
Adhesivebility	Upto 8 knots
Adhesivebility	Upto 8 knots



- 2. Hole of 230 mm minimum (20mm thick)



Safety Devices:

1. Hole diameter 240 mm on 22 mm thick MS plate. Safety Pin (Arming pin), shortening of Detonators, Mechanical Arming Delay, Electronic Arming Delay.

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

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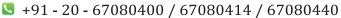
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