



## Medium Caliber Ammunition



### Medium Caliber Ammunition Checklist

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Contact [www.atk.com](http://www.atk.com) or call 480-324-8729 for more information.

20mm  
M55A2 TP  
M220 TP-T

Medium Caliber  
Ammunition



**20mm M55A2 TP/M220 TP-T**      **DODIC A897/A651**  
**20 x 102mm Target Practice, Untraced and Traced**

**PHYSICAL DATA**

Cartridge Length .....168mm  
Cartridge Weight .....3,935 grains/255g  
Projectile Weight .....1,521 grains/99g  
Propellant Weight .....660 grains/43g  
Propellant Type .....WC 872  
Cartridge Case Length .....102mm  
Cartridge Case Material .....Brass  
Primer .....M52A3B1 electric

**PERFORMANCE DATA**

Muzzle Velocity .....3,380 f/s  
Chamber Pressure (ambient) ....60,500 psi  
Dispersion .....15 in @ 600 yd AMR

The M55A2 TP is a low-cost target practice cartridge, ballistically matched to the M50 series ammunition for accurate training. It meets MIL-STD-331 requirements for maximum safety in storage, handling, and firing.

The M220 TP-T is a traced version of the M55A2 TP cartridge.

The M50 series is compatible with all 20mm M39A2, M61, M197, M621, and ATK Viper chain gun systems.

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20mm  
PGU-27A/B TP  
PGU-30A/B TP-T

Medium Caliber  
Ammunition



**20mm PGU-27 A/B TP/  
20mm PGU-30 A/B TP-T**  
**20 x 102mm Target Practice, Untraced and Traced**

DODIC AA24/AA25/AA27  
DODIC AA28

**PHYSICAL DATA**

Cartridge Length .....168mm  
Cartridge Weight ..... 4,035 grains/261g  
Projectile Weight .....1,558 grains/101g  
Propellant Weight ..... .580 grains/38g  
Propellant Type .....WC 868  
Cartridge Case Length .....102mm  
Cartridge Case Material .....Brass  
Primer .....M52A3B1 Electric

**PERFORMANCE DATA**

Muzzle Velocity .....3,410 fps  
Chamber Pressure (ambient) ...  $\bar{x} + 3\sigma \leq 61,500$  psi  
Dispersion ..... .15 in @ 500 yd AMR  
Trace Time .....PGU-30 A/B: 2.5 sec

The 20mm PGU-27 A/B TP is a training round ballistically matched to ZAP Superquick HEI, ZAP Delay SAPHEI, and PGU-28 A/B SAPHEI.

The 20mm PGU-30 A/B TP-T cartridge is usually linked (M14A2N link) in a 4:1 TP to TP-T configuration for special applications.

These cartridges are compatible with all 20mm M39A2, M621, M61, and ATK Viper chain gun systems.

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20mm  
PELE

Medium Caliber  
Ammunition



## 20mm PELE

DODIC AA83

### 20 x 102mm Penetrator Enhanced Lateral Effects

#### PHYSICAL DATA

Cartridge Length .....168mm  
Cartridge Weight .....3,965 grains/257g  
Projectile Weight .....1,525 grains/99g  
Propellant Weight .....600 grains/39g  
Propellant Type .....WC868  
Cartridge Case Length .....102mm  
Cartridge Case Material .....Brass  
Primer .....M52A3B1 Electric

#### PERFORMANCE DATA

Muzzle Velocity .....3,380 fps  
Chamber Pressure (ambient) ....60,500 psi  
Dispersion .....15 in @ 600 yd AMR  
Penetration .....PBL <2,786 f/s, 0.375 in, 0°

The PELE round produces a number of fragments without using high explosive, and is effective against aircraft and lightly armored vehicles.

The 20mm PELE is compatible with all 20mm M39A2, M61, M197, M621, and ATK Viper chain gun systems.

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**20mm  
MK244 Mod 0  
APDS ELC**

Medium Caliber  
Ammunition



**20mm MK244 Mod 0 APDS ELC**  
**Armor Piercing Discarding Sabot Enhanced Lethality**  
**Cartridge**

**PHYSICAL DATA**

Cartridge Length . . . . .6.615 in (max)  
Cartridge Weight . . . . .4,640 grains (approx)  
Projectile Weight . . . . .1,950 grains (approx)  
Propellant Weight . . . . .815 grains (approx)  
Propellant Type . . . . .Double Base Ball / OBP-888  
Cartridge Case Length . . . . .102mm  
Cartridge Case Material . . . . .Brass

**PERFORMANCE DATA**

Muzzle Velocity . . . . .3,610 ± 50 ft/s @ 78 ft  
Chamber Pressure (ambient) . . . . Avg + 3 sigma ≤ 61.4 KPSI  
Dispersion . . . . .Avg Mean Radius ≤ 0.75 milli-  
radians @ 78 ft

The Mk244 Mod 0 was developed for use in the Mk15 Block 1B improved Phalanx system. It has an optimized tungsten alloy penetrator that extends the effective range against high-speed anti-ship missile threats as well as surface threats. The round is currently being fielded by the U.S. Navy and is available for international navies upgrading to the Mk15 Block 1B Phalanx.

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20mm M940  
MPT-SD

Medium Caliber  
Ammunition



**20mm M940 MPT-SD**  
**Multi-Purpose Tracer – Self-Destruct**

**PHYSICAL DATA**

Cartridge Length . . . . . 6.615 in (max)  
Cartridge Weight . . . . . 4,000 grains (approx)  
Projectile Weight . . . . . 1,620 grains (approx)  
Propellant Weight . . . . . 578 grains (approx)  
Propellant Type . . . . . Double Base Ball / WC866  
Cartridge Case Length . . . . . 102mm  
Cartridge Case Material . . . . . Brass  
Explosive Type . . . . . Incendiary Charge: RS40 Mixture  
Explosive Charge: Comp A4  
Traced with WC866 self destruct  
charge  
Explosive Weight . . . . . 135 grains (8.75 g)  
Primer Type . . . . . Electric, M52A3B1  
Rotating Band . . . . . Sintered Iron

**PERFORMANCE DATA**

Muzzle Velocity (60 in band) . . . . 3,350 ± 45 ft/s @ 78ft  
Chamber Pressure (ambient) . . . . Avg + 3 sigma ≤ 64.0 KPSI  
Dispersion . . . . . Avg Mean Radius ≤ 15 in @  
547 yds

The 20mm M940 Multi-Purpose Tracer - Self Destruct cartridge has demonstrated effectiveness against light armor, airborne and light surface targets. The projectile is based on the multipurpose concept with delayed reaction after impact that results in large fragments and incendiary effects inside the threat. The projectile is traced and also has self destruct capability that minimizes collateral surface damage for engagement of airborne threats. It is currently being employed as a force protection munition in the M61 cannon of the land based Phalanx system.

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20mm  
PGU-28A/B  
SAPHEI

Medium Caliber  
Ammunition



**20mm PGU-28A/B SAPHEI**  
**Semi-Armor Piercing High Explosive Incendiary**

**PHYSICAL DATA**

Cartridge Length	6.615 in (max)
Cartridge Weight	4,000 grains (approx)
Projectile Weight	1,550 grains (approx)
Propellant Weight	580 grains (approx)
Propellant Type	Double Base Ball / WC868
Cartridge Case Length	102mm
Cartridge Case Material	Brass
Explosive Type	Incendiary Charge: RS40 Mixture Explosive Charge: A-4 Zirconium Pellet
Explosive Weight	104.64 grains (6.78 g)
Primer Type	Electric, M52A3B1
Rotating Band	Sintered Iron

**PERFORMANCE DATA**

Muzzle Velocity	3,410 ± 50 ft/s @ 78 ft
Avg Peak Chamber Pressure	Avg + 3 sigma ≤ 61.5 KPSI
Dispersion	Avg Mean Radius ≤ 15 in @ 500 yds

The PGU-28A/B Semi Armor Piercing High Explosive Incendiary (SAPHEI) provides for improved effectiveness against light armor, aircraft, vehicles and materiel targets. The projectile is based on the multipurpose concept with delayed reaction after impact that results in large fragments and incendiary effects inside the threat. The 20mm PGU-28A/B is fired in the M61 gun system used on fighter aircraft.

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25mm  
M791  
APDS-T

Medium Caliber  
Ammunition

