



20mm x 102mm Advanced Ammunition

Northrop Grumman is a leading 20mm ammunition producer. Our tactical and training ammunition is United States Government qualified and used by domestic and international customers worldwide across multiple platforms.

In addition to conventional ammunition, Northrop Grumman is the leading developer in advanced ammunition solutions to provide continued overmatch in a number of engagement scenarios and increased flexibility for combat load-outs.

Today, we are looking to the future to help support a more capable force by creating a new family of medium caliber ammunition, which includes airbursting, proximity, guided and armor penetrating—capable of providing greater precision and the ability to counter unmanned threats and to defeat advanced armor.

20mm X 102mm SUITE OF AMMUNITION

M55A2 TP
TARGET PRACTICE



PGU-27 TP
PGU-30 TP-T
TARGET PRACTICE



PGU-28 SAPHEI
SEMI ARMOR-PIERCING
HIGH EXPLOSIVE
INCENDIARY



Mk244 APDS ELC
ARMOR-PIERCING DISCARDING
SABOT ENHANCED LETHALITY
CARTRIDGE



M940-1 MPT-SD
MULTI-PURPOSE TRACER
SELF-DESTRUCT



M940-2 MPT-SD
MULTI-PURPOSE TRACER
SELF-DESTRUCT



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Cartridge

Description

CARTRIDGE LENGTH	CARTRIDGE WEIGHT	PROJECTILE WEIGHT	PROPELLANT WEIGHT	PROPELLANT TYPE	PRIMER	FUZE	MUZZLE VELOCITY	DISPERSION	TRACE TIME
M55A2 TP TARGET PRACTICE		The M55A2 TP is a low-cost target practice cartridge, ballistically matched to the M50 series ammunition for accurate training. The M50 series is compatible with all 20mm M39A2, M61, M197, and M621 gun systems.							
6.615 in max 168 mm max	4,025 grains 261 g	1,520 grains 98 g	605 grains 39 g	WC 872	M52A3B1, Metric	–	3,380 fps/ 1,030 m/s	Average mean radius < 15 in @ 547 yds	–
PGU-27 TP PGU-30 TP-T TARGET PRACTICE		The 20mm PGU-27 TP is a training round ballistically matched to the PGU-28 SAPHEI. The 20mm PGU-30 TP-T cartridge is a traced version of the PGU-27. The PGU series is compatible with all 20mm M39A1, M61, M197, and M621 gun systems.							
6.615 in max 168 mm max	3,985 grains 258 g	1,505 grains 98 g	580 grains 38 g	WC 868	M52A3B1, Electric	–	3,410 fps/ 1,039 m/s	Average mean radius < 15 in @ 500 yds	PGU-30: 2.5 sec min
PGU-28 SAPHEI SEMI ARMOR-PIERCING HIGH EXPLOSIVE INCENDIARY		The PGU-28 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-28 is fired in the M61 gun system used on fighter aircraft.							
6.615 in max 168 mm max	4,025 grains 261 g	1,535 grains 99 g	590 grains 38 g	WC 868	M52A3B1, Electric	–	3,410 fps/ 1,039 m/s	Average mean radius < 15 in @ 500 yds	–
Mk244 APDS ELC ARMOR-PIERCING DISCARDING SABOT ENHANCED LETHALITY CARTRIDGE		The Mk244 was developed for use in the Mk15 Block 18 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 18 Phalanx.							
6.615 in max 168 mm max	4,660 grains 302 g	1,535 grains 127 g	800 grains 52 g	OBP 888	M52A3B1, Electric	–	3,610 fps/ 1,100 m/s	< 0.75 mean milliradian	–
M940-1 MPT-SD MULTI-PURPOSE TRACER SELF-DESTRUCT		The M940-1 Multi-purpose Tracer Self-Destruct (MPT-SD) provides for improved effectiveness on light armor vehicles, missile and mortar threats in addition to material targets. The projectile is based on a multi-purpose concept with a delayed reaction after impact that results in large fragments and incendiary effects inside the threat. The M940 also has a self-destruct function resulting in the round self-destructing if it does not hit a target. The 20mm M940 is fired from the C-RAM system.							
6.615 in max 168 mm max	4,095 grains 105 g	1,620 grains 105 g	585 grains 38 g	WC 866	M52A3B1, Electric	–	3,350 fps/ 1,021 m/s	Average mean radius < 15 in @ 547 yds	3.8 sec minimum
M940-2 MPT-SD MULTI-PURPOSE TRACER SELF-DESTRUCT		The M940-2 Multi-Purpose Tracer Self-Destruct (MPT-SD) provides for improved effectiveness and greater penetration on light armor vehicles, missile and mortar threats in addition to material targets. The projectile is based on a multi-purpose concept with tungsten alloy penetrator and after impact results in large fragments and incendiary effects inside the threat. The M940 also has a self-destruct function resulting in the round self-destructing if it does not hit a target. The 20mm M940 is fired from the C-RAM system.							
6.615 in max 168 mm max	4,300 grains 279 g	1,836 grains 119 g	555 grains 36 g	WC 866	M52A3B1, Electric	–	3,130 fps/ 954 m/s	Average mean radius < 15 in @ 547 yds	3.8 sec minimum