



30 x 173mm Advanced Ammunition

Northrop Grumman is a leading producer of a complete family of 30mm tactical and target practice ammunition that is accurate and lethal in anti-armor, anti-material, anti-personnel, ground suppression, air defense and shipboard-defense applications that is fired from land-, air- and sea-based platforms worldwide.

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 to provide greater precision and the ability to counter unmanned threats and to defeat advanced armor.

30 X 173mm SUITE OF AMMUNITION

PGU-46
HIGH EXPLOSIVE INCENDIARY
WITH INERT TRACER



PGU-15
TARGET PRACTICE



PGU-13 HEI
HIGH EXPLOSIVE
INCENDIARY



Mk310 PABM
PROGRAMMABLE AIR BURST
MUNITION WITH TRACER



Mk266 HEI-T
Mk238 HEI-T/SD
HIGH EXPLOSIVE INCENDIARY
WITH TRACER AND
SELF-DESTRUCT



Mk239 TP-T
TARGET PRACTICE WITH
TRACER



NG1170W
ARMOR-PIERCING
FIN-STABILIZED DISCARDING
SABOT W/TRACER



northropgrumman.com

Approved for Public Release; NG23-2042
© 2023, Northrop Grumman

109912_1

**NORTHROP
GRUMMAN**

Cartridge

Description

CARTRIDGE LENGTH	CARTRIDGE WEIGHT	PROJECTILE WEIGHT	PROPELLANT WEIGHT	PROPELLANT TYPE	PRIMER	FUZE	MUZZLE VELOCITY	DISPERSION	TRACE TIME
------------------	------------------	-------------------	-------------------	-----------------	--------	------	-----------------	------------	------------

PGU-46
HIGH EXPLOSIVE
INCENDIARY WITH
INERT TRACER

The PSU-46 is a modification of the PGU-13 HEI, adding a non self-destruct, Northrop Grumman Low Drag fuze. The Low Drag fuzes produced exclusively by Northrop Grumman, provides superior performance at extended ranges. These rounds are capable of defeating light armor vehicles and grounded targets used with the Mk44 and GAU-23 (which arm AC130 gunships) or any cannon firing 30mm x 173mm ammunition.

290mm	713 g	665 g	148 g	Single Base	M36A2 Percussion	NG 151-LD	3,540 fps/ 1,079 mps	1.0 mr max	–
-------	-------	-------	-------	-------------	------------------	-----------	-------------------------	------------	---

PGU-15 TP
TARGET PRACTICE

The PGU-15 is a low-cost target practice round, ballistically matched to the PGU-13 High Explosive Incendiary cartridge. This design is used for training applications, also proven in applications against light armor. The PGU series of ammunition is currently in use with the 30mm GAU-8/A Gatling gun on the U.S. Air Force A-10 close-support aircraft. The PGU-15 TP is used in training, weapons testing and aircraft systems checkout.

290mm	681 g	378 g	145 g	Single Base	M36A2 Percussion	–	3,350 fps/ 1,020 mps	1.0 mr rad. max	–
-------	-------	-------	-------	-------------	------------------	---	-------------------------	-----------------	---

PGU-13 HEI
HIGH EXPLOSIVE
INCENDIARY

The primary role of the PGU-13 HEI cartridge is the defeat of light material targets. As an added advantage, it incorporates incendiary capability against flammable targets. The 30mm PGU series is currently in use with the 30mm GAU-8/A Gatling gun on the U.S. Air Force A-10 close-support aircraft. Northrop Grumman's PGU-15 TP provides a low-cost training round that is ballistically matched to the PGU-13 HEI

290mm	681 g	378 g	150 g	Single Base	M36A2 Percussion	M505 PD	3,350 fps/ 1,020 mps	1.0 mr rad. max	–
-------	-------	-------	-------	-------------	------------------	---------	-------------------------	-----------------	---

Mk310 PABM
PROGRAMMABLE AIR
BURST MUNITION WITH
TRACER

The Mk310 30mm PABM-T round meets the need for increased lethality for infantry fighting vehicles. The key to the system is the airburst fuze that uses a turn and time counting method to provide the required burst point accuracy. Our inductive fuze setting approach is easily integrated into weapon platforms and is designed to be fired from Northrop Grumman's Bushmaster Mk44 cannon. The round features a rear-set fuze to allow for maximum effectiveness on target. The Mk310 PABM-T can be fired in 3 modes: airburst, point detonate, and point detonate-delay.

290mm	730 g	438 g	143 g	Single Base	M36A2 Percussion	Turns/Time	3,182 fps/ 970 mps	1.0 mr rad. max	5 sec min
-------	-------	-------	-------	-------------	------------------	------------	-----------------------	-----------------	-----------

Mk266 HEI-T
Mk238 HEI-T/SD
HIGH EXPLOSIVE
INCENDIARY WITH TRACER
AND SELF-DESTRUCT

The Mk266 and Mk238 HEI-Ts are modifications of the PGU-13 HEI, adding a tracer and Northrop Grumman's Low Drag fuze. The Mk266 uses a non-self-destruct version of the fuze while the Mk238 uses a self-destruct version. The Low Drag fuzes, produced exclusively by Northrop Grumman, provide superior arming delay, graze function and extended range sensitivity. These rounds are used in the Mk44 or any cannon firing 30mm x 173mm ammunition. Northrop Grumman's Mk239 TP-T provides a ballistically-matched training round for both the Mk266 HEI-T and the Mk238 HEI-T/SD.

290mm	655 g	362 g	148 g	Single Base	M36A2 Percussion	NG 151-LD NG 758-LD	3,540 fps/ 1,079 mps	1.0 mr max	4.7 sec min
-------	-------	-------	-------	-------------	------------------	------------------------	-------------------------	------------	-------------

Mk239 TP-T
TARGET PRACTICE WITH
TRACER

The Mk239 TP-T is a modification of the 30mm PGU-15 TP, adding a tracer to meet the requirements of ground vehicle applications. The round provides a cost-effective training round that is ballistically matched to the Mk266 HEI-T and Mk238 HEI-T. This round was developed for ground vehicle applications which use the Mk44 cannons or any cannon firing 30mm x 173mm ammunition. The Mk239 TP-T is ballistically match to both the Mk266 HEI-T and Mk238 HEI-T/SD.

290mm	675 g	372 g	148 g	Single Base	M36A2 Percussion	–	3,435 fps/ 1,047 mps	1.0 mr max	3.4 sec min
-------	-------	-------	-------	-------------	------------------	---	-------------------------	------------	-------------

NG1170W
ARMOR PIERCING
FIN-STABILIZED DISCARDING
SABOT W/TRACER

The NG1170W is a 30mm x 173mm Armor-Piercing, Fin-Stabilized Discarding Sabot with Tracer (APFSDS-T) cartridge for engagement against medium to heavy target sets at all ranges. It features a low-drag sub-caliber projectile containing an optimized length-vs-diameter cobalt-free tungsten (W) heavy alloy penetrator launched by means of a lightweight sabot. With enhanced penetration, Northrop Grumman's APFSDS-T cartridge offers superior performance and overmatch against an array of complex targets to meet the advanced mission needs of today's warfighter

CARTRIDGE LENGTH	CARTRIDGE WEIGHT	PENETRATOR MATERIAL	CHAMBER PRESSURE	SABOT DISC	PRIMER	PENETRATION	MUZZLE VELOCITY	DISPERSION	TRACE DISTANCE
290mm	<725 g	Cobalt-Free Tungsten	148 g	<5°	M36A2 Percussion	≥105mm RHA @ 1,000	4,757 fps/ 1,450 mps	<0.4 mils	> 2,000 meters