



105MM M724A2 TPDS-T

Target Practice Discarding Sabot - Tracer



Purpose: This cartridge is used for gunnery training in tank-mounted 105mm gun cannons.

Description: This discarding sabot round is similar in external appearance and is ballistically similar up to 2000 meters with the APDS-T Cartridge M392A2. It is used as a training surrogate for all 105mm kinetic energy cartridges, including the M735, M774, M833 and M900. There is a tracer located in the base of the projectile. A plastic band encircles the sabot at the forward end. A fiber rotating band and rubber obturating band are mounted toward the base of the the sabot. The igniter tube of the electric primer extends almost the length of the propellant packed loosely in the cartridge case.

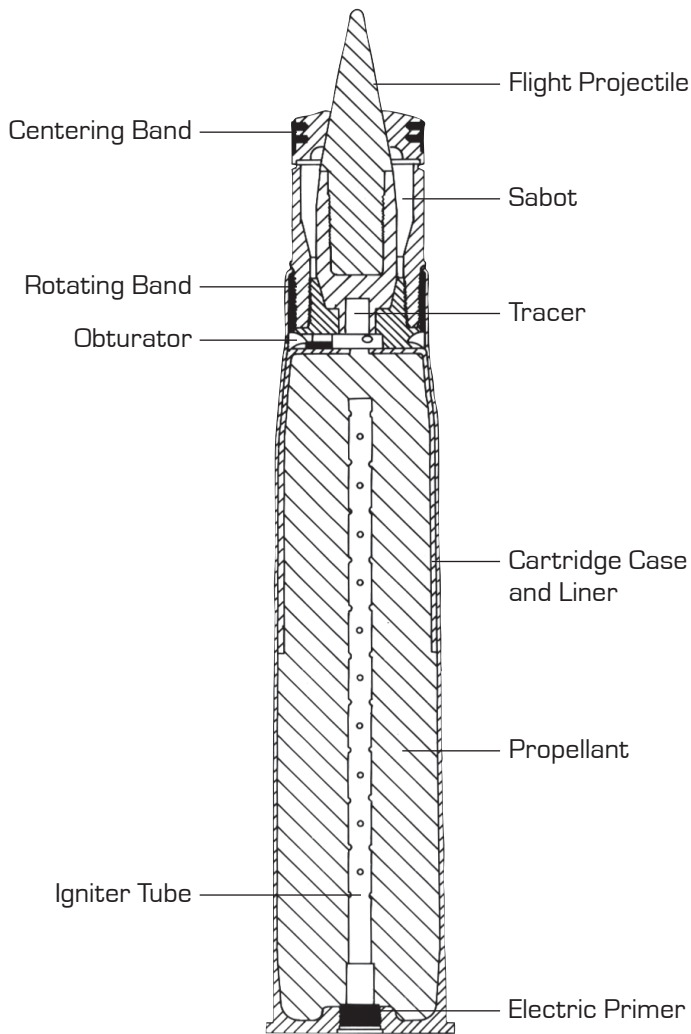


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Operation: The electrically initiated primer ignites the propelling charge and tracer. Gases produced by the burning propellant propel the projectile from the gun. The tracer burns for a minimum of 2.5 seconds. The sabot is discarded after leaving the muzzle of the weapon as a result of setback, centrifugal, and air pressure forces. The solid core of the projectile continues to the target. Since it is a practice round, the projectile lacks the penetrating capability of a severe round.



Characteristics

Type Classification STD, MSR 05746014 dtd 1974

Complete Round:

Weight 32 lbs (14.5 kg)

Length 33 in (838 mm)

Cannon used with M68

Projectile:

Body material Steel

Color Blue w/white marking

Components:

Cartridge case M115B1

Propelling charge M1

Primer M80A1

Tracer M13

Performance:

Maximum range 16,739 m (18,450 yd)

Muzzle velocity 1,539 mps (5,080 fps)

Temperature Limits

Firing:

Lower limit -40°F (-40°C)

Upper limit +125°F (+52.0°C)

Storage:

Lower limit -80°F (-62.2°C)
(for period not more than 3 days)

Upper limit +160°F (+71.1°C)
(for period not more than 4 hr/day)

Packing

1 round per fiber container; 2 containers per wooden box:

Packing Box:

Weight 107 lbs (48.5 kg)

Dimensions 39^{7/8} x 14^{1/8} x 8^{23/32} in
(1012.8 x 358.8 x 221.5 mm)

Cube 2.8 cu ft (.08 cu m)

GENERAL DYNAMICS
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