

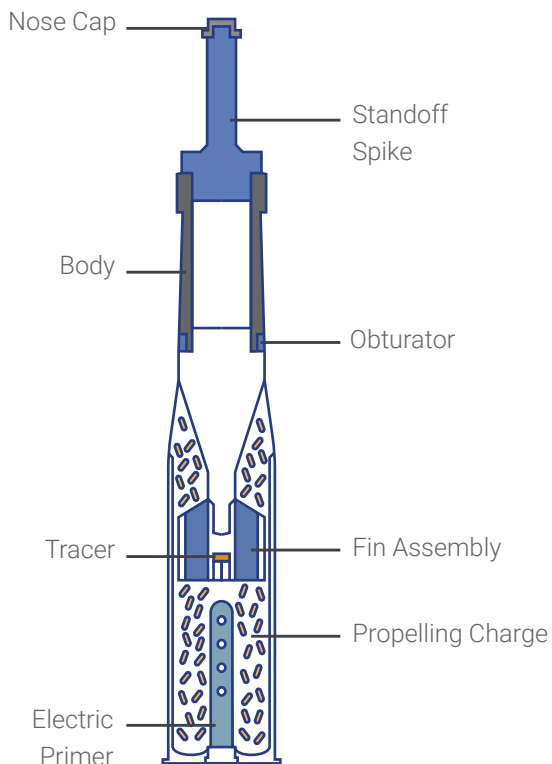
105MM M490

Target Practice
-Tracer (TP-T)



MUNITIONS

LARGE CALIBER



PURPOSE

This cartridge is for use in 105mm gun cannons for training in marksmanship.

DESCRIPTION

The cartridge is similar in external appearance and ballistically similar to the M456 HEAT-T cartridge. The projectile consists of a steel body, an aluminum stand-off spike, and a boom and fin assembly with tracer. The cartridge case is filled with loosely packed propellant and is fitted with an electronic primer.

OPERATION

The electrically initiated primer ignites the propelling charge. Gases produced by the burning propellant propel the projectile from the gun and ignite the tracer, which burns for a minimum of 2.5 seconds.

105MM M490 TP-T

Target Practice-Tracer

Characteristics

Type Classification Std AMCTC 1103 afd 1963

COMPLETE ROUND

Weight 45lb (20.4kg)

Length 39.0 (990.6mm)

Cannon used with M68

PROJECTILE

Body Material Steel

Color Blue with white marking

COMPONENTS

Cartridge Case M148A1B1, M148A1

Propelling Charge M30

Primer M83

Tracer M13

PERFORMANCE

Maximum Range 8,207m (8,975yd)

Muzzle Velocity 1,170mps (3,850fps)

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)

Shipping & Storage Data

Storage Class/SCG (08) 1.2C

DOT Shipping Class B

DOT Designation Ammunition for cannon
with empty projectiles

DODAC 1315-C511

Drawing Number 8865533

Packing

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

PACKING BOX

Weight 132lb (59.9kg)

Dimensions 45^{7/8} x 14^{1/2} x 8^{3/4}in
(1165.1 x 368.3 x 222.3mm)

Cube 3.3cu ft (0.09cu m)

Limitations

Cartridge M490 manufactured prior to January 1967 have a cartridge case liner that utilizes a low-melt wax. Do not fire cartridges that have been tank transported at temperatures above +120°F (+49°C).

