

105 mm COMPLETE ROUND WITH PROJECTILE HE M1 AND FUZE PD M557

The 105 mm cartridge with PD M557 fuze is of the high explosive type.

It is used with 105 mm HOWITZERS including: The M49 with M52 and M52A 1 cannons, the M2A1 and M2A2 with M101 and M101A1 cannons, the M103 with M108 can-non, the M137 with M102 cannon, as well as the NATO L 14 MOD 56 and L5.

TECHNICAL DESCRIPTION

Projectile: Consists of a hollow steel forging with a boat-tailed base, a streamlined ogive and gilding metal driving band.

High Explosive Charge: Is cast TNT. A cavity is formed at the nose of the projectile to accept the supplementary charge.

Supplementary charge: Consists of TNT pressed into an aluminum liner. The entire unit is placed in the fuze cavity.

Cartridge Case: Is the M14 type, made of 70/30 brass.

Propelling Charge: Type M67, consisting of seven (7) propelling charge increments. The increments are individually numbered and placed in cloth bags.

Percussion Primer: Is the M28B2 type and is press-fitted at the base of the cartridge case.

Fuze: It is a point detonating, type M557 with choice of super quick or delay action, featuring a arming distance of 60 m.

Complete round

Total Length: 790 mm

Total Weight: 18.15kg

Projectile

Total Length: 495mm

Total Weight: 3.5 kg to 14.3 kg

Explosive Charge: 2.09 kg

Supplementary Charge: 0.14 kg

Temperature limits

Operation: - 40° C to +52° C

Storage: -62° C to +71° C



BALLISTIC DATA

GUN	CHARGE	MUZZLE VELOCITY Vo mean (m/s)	MAXIMUM RANGE (m)
M52	1	198.1	3510
M52A1			
M101	7	472.4	11270
M101A1			
M102	1	205	3700
M103	7	494	11500

PACKING: Each 105 mm complete round is placed in a fiber container. Two (2) fiber containers are packed in a wooden box. Fifteen (15) wooden boxes are shipped on a pallet: Dimensions: 0.95 x 0.91 x 1.09 m | Volume: 0.94 m³ | Gross Weight: 840 kg