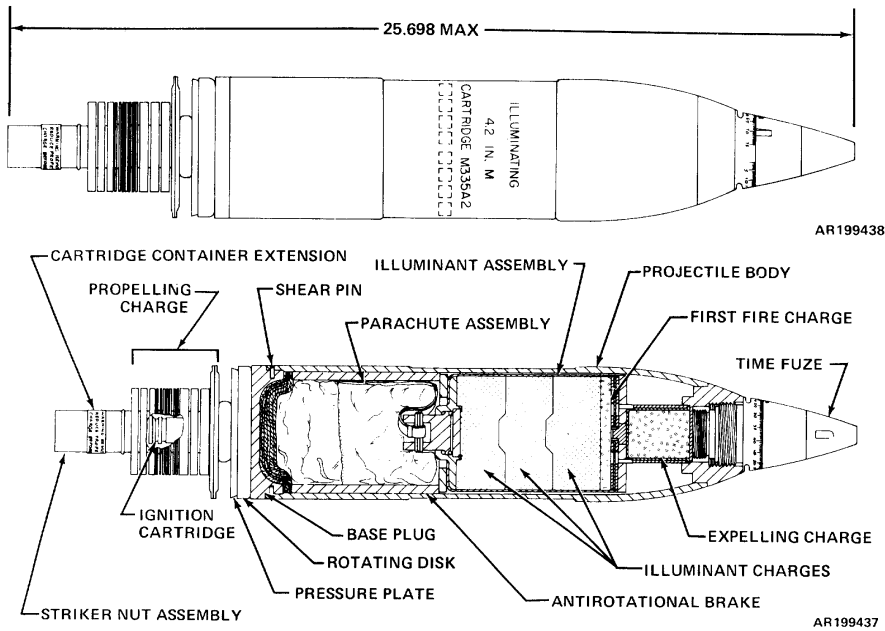


MORTAR, 4.2-INCH, ILLUM, M335A2



Use. This cartridge is used for target and battlefield illumination at night and during other periods of low visibility.

Description. The complete round consists of a projectile body with a detachable base plug, a time fuze, an illuminant assembly attached to a parachute assembly, and a tail assembly. The steel tube body is designed to accommodate an expelling charge immediately below the fuze, and the base plug is attached with four equally spaced shear pins. The illuminant assembly consists of a first-fire charge and an illuminant charge, contained in a canister fitted with anti-rotational brakes to reduce canister spin at the time of ejection and prevent twisting of the parachute suspension lines. The tail assembly includes a pressure plate and rotating disc, a propelling charge, a cartridge container and ignition cartridge, and a striker nut assembly.

Over-all Length	25.698 inches
Diameter (body)	4.2 inches
Total Weight	26.00 pounds
Filler	illuminating
Filler weight	3.31 pounds
Expelling Charge	Black Powder, 0.18 pounds
Propellant	M6
Fuze	MT, M556; MTSQ, M577
Color	White with black markings

Reference: TM 43-0001-28, *Army Ammunition Data Sheets, Artillery Ammunition*, April 1977