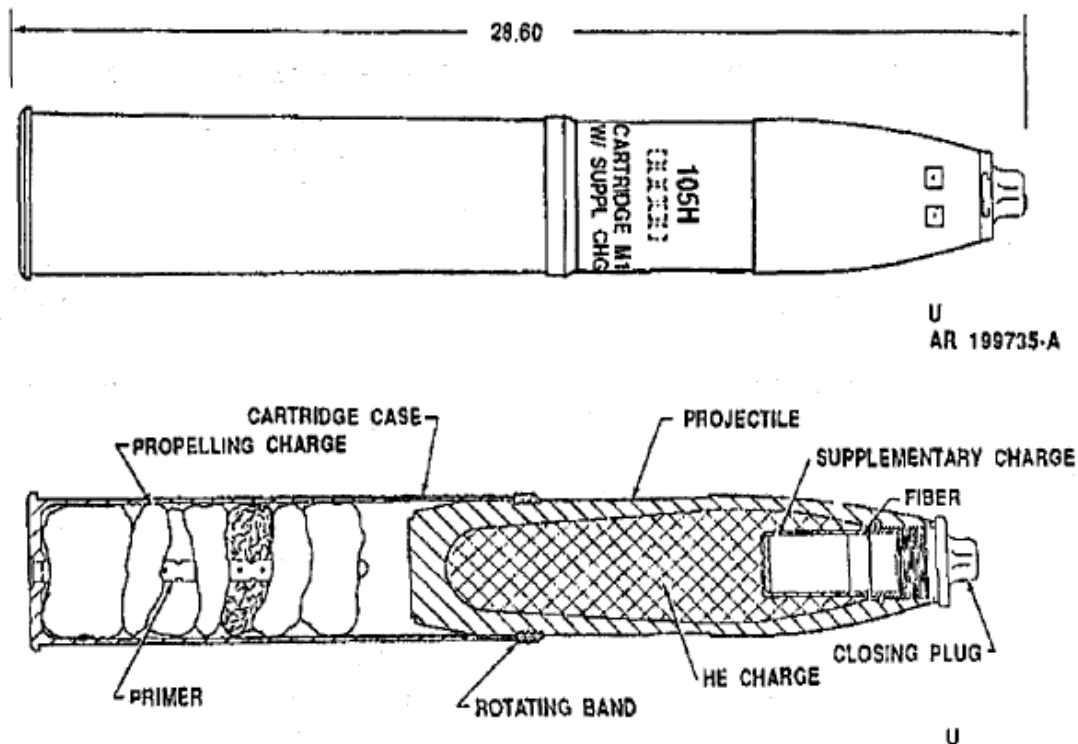


Ordnance Technical Data Sheet

CARTRIDGE, 105-MILLIMETER: HE, M1



Nomenclature:	Cartridge, 105-Millimeter: HE, M1
Ordnance Family:	PROJECTILE
DODIC:	C445
Filler:	Comp B or TNT
Body:	Forged Steel
Filler weight:	Comp B- 5.08 lb normal cavity, 4.60 lb Deep cavity TNT- 4.80 lb normal cavity, 4.25 lb deep cavity
Item Weight:	39.92 lb
Diameter:	105 mm
Length:	28.60 inch
Color:	Olive Drab, or OD w/yellow markings
Fuze:	PD-M557, M78 series, M739 series, MTSQ-M582 series, M564. Prox-M513 series, M728, M732 series, ET- M767

Usage: The projectile of this cartridge contains high explosive and is used for fragmentation, blast and mining in support of ground troops and armored columns.

Description: The projectile consists of a hollow steel forging with a boattailed base, a streamlined ogive, a gilding metal rotating band, and a nylon obturating band. A base cover is welded to the base of the projectile for added protection against the entrance of hot gases from the propelling charge during firing. The high explosive (HE) filler within the projectile may be either cast THT or composition B. A fuze cavity is either drilled or formed in the filler at the nose end of the projectile. This cavity may be either shallow or deep. A cavity liner, to preclude dusting of HE during transportation and handling, is seated in the cavity and expanded into the lower projectile fuze threads. A supplementary charge is placed in the fuze cavity of projectiles having deep cavities. Projectiles with shallow cavities or deep cavities containing a supplementary charge use only short intrusion fuzes, PD, or MT. Those with deep cavities will accept the long intrusion proximity fuze after removing the supplementary charge. Projectiles may be shipped with a PD or MTSQ fuze or with a closing plug, a chip board spacer is assembled between the supplementary charge and plug to limit movement of the former during transportation and handling.

Reference: TM 43-0001-28