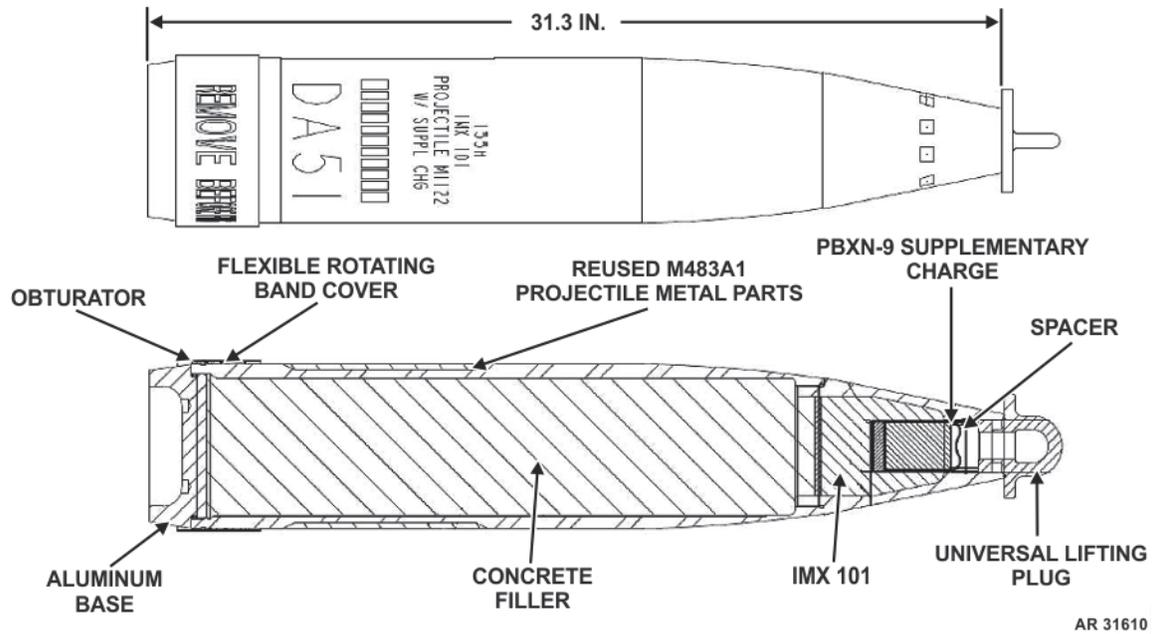


PROJECTILE, 155MM: HE, M1122



TYPE CLASSIFICATION:

TC-STD - November 2010.

USE:

This projectile will be used in place of the Practice, M804A1 projectile for 155mm Howitzer crew and forward observer training in indirect fire. Crew training can be conducted without the blast and fragmentation effects of the M795 projectile. The M1122 projectile is designed to be compatible with the M198, M777 series, and M109 series Howitzers.

DESCRIPTION:

The M1122 High Explosive (HE) Projectile will be the primary 155mm training projectile for HE artillery fire missions, providing improved and more realistic performance and survivability characteristics at a lower cost over currently fielded 155mm projectiles used for training. The M1122 is an improved artillery projectile containing Insensitive Munitions (IM) explosive that is ballistically similar to the 155mm M795 HE projectile. This projectile is

required to safely accomplish training exercises in current and developmental registration corrections for computation of range, deflection and fuze correction for use with other members of the ballistically similar family of projectiles.

FUNCTIONING:

The 155mm M1122 projectile is shipped unfuzed with a Melttable Fuze Plug (MFP) for shipping and handling. When the weapon is fired, the rotating band engages the barrel rifling to impart spin to the projectile for stability in flight. The obturator behind the rotating band forms a seal to prevent leakage of gas pressure past the projectile. Rapidly expanding gases from the burning propellant charge propel the projectile through the barrel with the velocity necessary to reach the target. At the target, the warhead filler is detonated by the fuze. The fuze mode can be either impact, preset time, or proximity depending on fuze selection. The maximum range objective is established to provide the ability to reach targets at the same distance that lethal HE munition can reach. The M1122 projectile's top zone compatibility from a 39 caliber tube, with MACS propellant, provides a capability that is not present with the current stockpile of training munitions.

