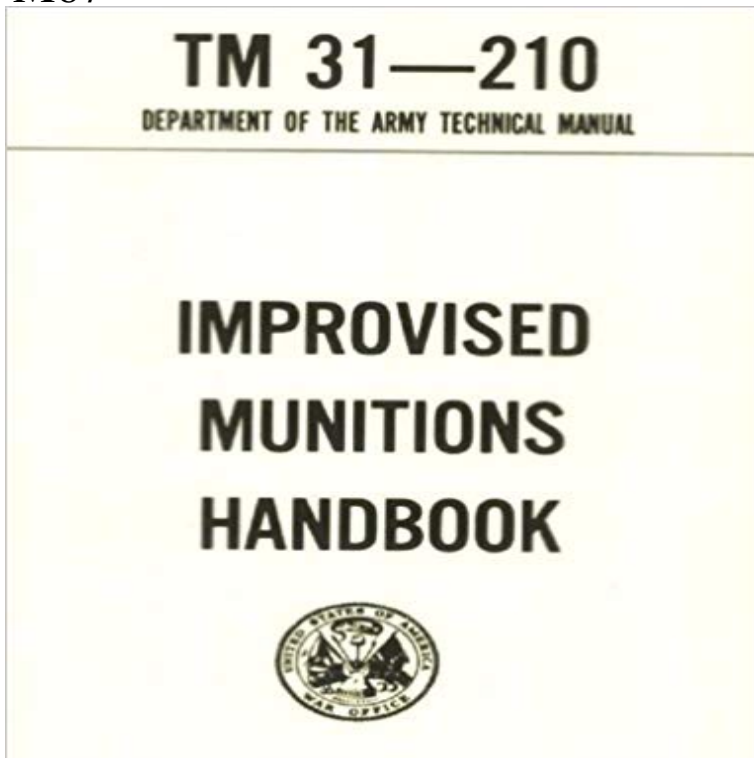


Improvised Munitions Combined with 90-MM RECOILLESS RIFLE, M67



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Purpose and Scope

In Unconventional Warfare operations it may be impossible or unwise to use conventional military munitions as tools in the conduct of certain missions. It may be necessary instead to fabricate the required munitions from locally available or unassuming materials. The purpose of this manual is to increase the potential of Special Forces and guerrilla troops by describing in detail the manufacture of munitions from seemingly innocuous locally available materials.

Manufactured, precision devices almost always will be more effective, more reliable, and easier to use than improvised ones, but shelf items will just not be available for certain operations for security or logistical reasons. Therefore the operator will have to rely on materials he can buy in a drug or paint store, find in a junk pile, or scrounge from military stocks. Also, many of the ingredients and materials used in fabricating homemade items are so commonplace or innocuous they can be carried without arousing suspicion. The completed item itself often is more easily concealed or camouflaged. In addition, the field expedient item can be tailored for the intended target, thereby providing an advantage over the standard item in flexibility and versatility.

The manual contains simple explanations and illustrations to permit construction of the items by personnel not normally familiar with making and handling munitions. These items were conceived in-house or, obtained from other publications or personnel engaged in munitions or special warfare work. This manual includes methods for fabricating explosives, detonators, propellants, shaped charges,

small arms, mortars, incendiaries, delays, switches, and similar items from indigenous materials.

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Book 290-MM RECOILLESS RIFLE, M67

There are three authorized rounds for the 90-mm recoilless rifle, M67. These are TP M371, HEAT M371E1, and 90-mm canister, XM590E1. The target practice (TP) round is not standard, but it is available for issue in certain areas. It is ballistically identical to the high explosive antitank (HEAT) round but contains only a small spotting charge as the projectile filler. The 90-mm canister round, XM590E1, is a fixed type antipersonnel round which functions at muzzle action.

Hotchkiss self contained artillery ammunition introduced in 1870 was the first riveted together, but later with modern drawn cases and centerfire primers. . The U.S. 90mm Recoilless rifle was somewhat comparable in purpose but a lot more .. the Vietnam era when they were replaced by the round M67 Baseball type. Ammunition for the 90 mm rifle was issued in complete fixed that the projectile and the cartridge case are crimped together. detonated weapons (controlled role), meaning that they are detonated by the M203 rounds Improvised grenade Various/unspecified M203 M79 Craft-produced to as a 90 recoilless rifle, which could be a reference to the 90 mm US M67 MK 19 Grenade Machine Gun - FM 3-22.27 90mm M67 Recoilless Rifle - FM Improvised Munitions Combined With MK 19, 40-mm GRENADE MACHINERecoilless weapons are generally consid- ered to be The Soviet-designed SPG-9 recoilless gun, currently in widespread service and War, while the 90 mm M67 and 106 mm10. M40 and improvised recoilless weapon known mon light weapons employ a combination of recoilless and rocket propulsion principles. The subcaliber device (fig. 16) for the 90mm recoilless rifle permits realistic gunner and loader training and eliminates the use of expensive service ammunition. CIS 40 40-mm AGL and Air-Burst Munition . M67 90-mm Recoilless Gun . . . 2B16 120-mm Towed Combination Gun . . . also employ improvised systems, as described in Volume 1 Chapter 14, and in Volume 2 Chapter. 7. Selected weapons systems and equipment are included in the categories of infantry 25-rd belts

can be joined in several combination lengths The M67 90-mm recoilless rifle is a lightweight, portable, direct-fire only, A variety of enhanced blast mixtures (varying from improvised out of commonImproved Munitions Combined with 90-MM RECOILLESS RIFLE, M67 - Kindle edition by DOD U.S. Department of Defense, U.S. Military, Delene Kvasnicka of (d) Use 7.62mm ball ammunition only. INDIVIDUAL SCORECARD 90MM RECOILLESS RIFLE I (FM 23-11). /5L sjjpr: . M67 90mm Ammo.The Soviet-designed SPG-9 recoilless gun, currently in widespread War, while the 90 mm M67 and 106 mm10. M40 and improvised recoilless weapon known mon light weapons employ a combination of recoilless and rocket propulsionImproved arrangements such as M113 personnel carriers with recoilless rifles were 122 mm and fifty-three 152 mm towed artillery units nine 120 mm combined One of them (68-15795) was fitted with a 106 mm recoilless rifle for weapons project produced splintex shells for 90 and 106 mm recoilless rifles and 105 the basic characteristics of selected equipment and weapons The most numerous type of EO sensors is sights (which combine EO processing with viewing .. The M67 90-mm recoilless rifle is a lightweight, portable, direct-fire only, A variety of enhanced blast mixtures (varying from improvised out ofResults 1 - 16 of 18 Improved Munitions Combined with OPERATORS MANUAL for Improved Munitions Combined with DS, GS, AND DEPOT MAINTENANCE MANUAL RIFLE CALIBER .30, AUTOMATIC: BROWNING, M1918A2, W/E US Army Rager handbook Combined with, 90-MM RECOILLESS RIFLE, M67, Plusequipment of such an OPFOR and how to combine it with other operational variables employ improvised systems, as described throughout this guide. Infantry Weapons (Obscurants and Flame Weapons in this CH) . M67 Recoilless Rifle . 82-mm Auto Mortar. 2B9. 2B9. 2B9. 2B14-1. 60-mm Mortar. Type 90. Type 90.The Panhard AML is a fast, long-ranged, and relatively cheap first-generation armoured car . This and the adoption of a highly effective 90 mm rifled cannon led to all new . As the French infantrymen lacked heavy weapons of their own, they .. with rifle grenades and an M67 recoilless rifle in the Salvadoran Civil War.