

7.62mm Advanced Armor Piercing (ADVAP), M1158

The M1158 Advanced Armor Piercing (ADVAP) ammunition is lethal demonstrating increased lethal effects as compared to the currently fielded M80A1 and M993 rounds. The M1158 LFT&E was adequate to support the full-rate production scheduled for September 2025.



System Description

The M1158 Advanced Armor Piercing (ADVAP) is a new 7.62mm round designed to provide dismounted infantry with an overmatch capability against a broad spectrum of targets as compared to the legacy M993 armor piercing (AP) and M80A1 Enhanced Performance Rounds. The M1158 round is compatible with the M240 series of machine guns; the Mk 48 machine gun; and the M110, Mk 17, Mk 14, and M14 series rifles.

Program

The M1158 ADVAP is an Acquisition Category III program. The Army began low-rate initial production in May 2019 to support an urgent material release in October 2019. The Army approved the M1158 Milestone C and Type Classification Standard in January 2020. DOT&E approved the Milestone C Test and Evaluation Master Plan in May 2020. In December 2020, the Army completed lethality testing to support the full material release decision in March 2021 and the full-rate production decision planned for September 2025.

Test Adequacy

The Army completed LFT&E in December 2020 in accordance with DOT&E-approved test plans. Testing was adequate to evaluate M1158 lethality in support of the full material release decision.

Performance

The M1158 round is lethal. Additional details including target descriptions, lethality performance, and limitations as well as comparison to the legacy M993 and M80A1 rounds are available in the classified LFT&E report, published in October 2021. Specifically, the report summarizes the ability of a shooter equipped with M1158 and an M240 series

machine gun to incapacitate an armed adversary in a wide array of operationally representative conditions.

Recommendation

1. The Army should update the small arms warfighter training based on the recommendation detailed in the classified report.