

Com 13

Cincpac File
Pac-31-S1
A2-11(2)
S78

UNITED STATES PACIFIC FLEET
AND PACIFIC OCEAN AREAS
HEADQUARTERS OF THE COMMANDER IN CHIEF

Serial 01695

1 May 1944.

CONFIDENTIAL

PACIFIC FLEET CONFIDENTIAL NOTICE 15CN-44.

From: Commander in Chief, U. S. Pacific Fleet.
To: PACIFIC FLEET.
Subject: 40 Millimeter APT Ammunition.

Reference: (a) Cominch Conf. Ltr. FF1/S78-1 serial 01174 dated 6 April 1944.

Enclosure: (A) Characteristics of APT Ammunition.

1. Forty MM AP ammunition is now available. Definite allowances have been set by Bureau of Ordnance for PT's, SC's and PC's. Other vessels will normally carry 2% of the 40mm. allowance in AP ammunition, except that DE's and PF's will carry 10%. For special operations the responsible commander is authorized to increase the percentage of AP as desired.

2. Certain characteristics of 40mm. AP ammunition are shown in enclosure.

C. H. McMORRIS,
Chief of Staff.

DISTRIBUTION: (9N-44)

- Case 2.
- List I A-T, X.
- List II D, G, O.
- List III A-X.
- List IV J-O, W, X, Y.
- List V A, B, Q, R, S, T, DD.

O. L. Thorne,
Flag Secretary.

ENCLOSURE (A)

The 40mm. AP projectile M81 is an inert projectile assembled without fuze weighing 1.9 pounds. It is currently available with tracer and has been requested by CinCPac without tracer. The initial velocity is the same as developed by the H. E. T. cartridge, 2890 f.s., but the AP projectile will undershoot the range tables and the H.E. projectile due to a slightly different ballistic coefficient by the following amount:

<u>Range</u>	<u>Undershoot</u>
2000 yds.	50 yds.
4000 yds.	100 yds.
6000 yds.	160 yds.

Tentative penetration data at normal impact is as follows:

<u>RANGE</u>	<u>Homogeneous Armor</u>	<u>Concrete</u>
500 yds.	2.3"	23"
1000 yds.	1.9"	19"
1500 yds.	1.5"	15"
2000 yds.	1.2"	12"

At 20° obliquity, the thickness penetrated is about 15% to 20% less than at normal impact.

CONFIDENTIAL
13TH NAVAL DISTRICT
MAY 29 10 25 AM '44
COMMANDANT