

C. BELTING AND PREPARATION

1. GENERAL

- (1) The deciding factors for the choice of type of ammunition are:
 - a) the attainment of the greatest possible effect
 - b) the reasonable ammunition expenditure corresponding to the supply situation

- (2) The unit commander, based on the knowledge of the individual types of ammunition, must strive to achieve the best degree of effect in combat by his choice in belting ammunition. At the same time he must understand that ammunition expenditure must be within the limits of the existing supply situation.

- (3) The manufacture of ammunition will immediately incorporate in its production process any new knowledge gained at the front or from experimentation. The troops must be aware of the fact however, that at the appearance of a new effective type of ammunition, manufacture can not be changed over at once. The large supply of existing stocks of previously manufactured types of ammunition can not simply be thrown away but must be used up..

- (4) New types of ammunition at the start will always be "scarce items." The supply command must be so elastic, however, as to make them available to the troops (in this case under the concept of issuing the newest stocks first, and utilize the older type of ammunition as a reserve and to fill out shortages.

The effort of Development to provide the troops with more effective means of fighting is defeated if these are not issued until the old stocks are used up.

This is especially true of ammunition, wherein an improvement is made within the same type of ammunition.

II. BELTING

Based on combat experiences in conjunction with comparison and effectiveness tests, and in line with the supply situation, the following suggestion for belting the various types of ammunition can be given.

(1) 13mm weapons (MG 131)

1 13mm Br.Sprgr.L'Spur o.Zerl (HEIT not self-destroying)

1 13mm Pzgr.L'spur o.Zerl or 13mm Pzbrgr.Patr.(Ph)EI o.Zerl (APT or APIT not self-destroying)

(2) 15mm Weapons (MG 151, MG 151 electric primer).

1 15mm Br.Sprgr.L'Spur m.Zerl (HEIT self-destroying)

1 15mm H.Pzgr.o.Zerl (AP not self-destroying.)

(3) 2 cm weapons (MG 151/20, MG 151/20 electric primer, MG-FFM)

a) Fighter Aircraft on Western Front.

1 2cm M.Gesch.Patr.151 m.Zerl (M-projectile, self-destroying)

1 2cm Brgr.Patr.L'spur 151 m.Zerl (Incendiary Tracer self-destroying)

1 Pzgr.Patr.L'spur 151 o.Zerl (APT not self-destroying)

b) Fighter Aircraft on Eastern Front,

3 2cm M-Gesch.Patr. 151 m.Zerl (M-projectile, self-destroying)

1 2cm Brgr.Patr.L'spur 151 m.Zerl (Incendiary Tracer self-destroying)

1 Pzgr.Patr.L'spur 151 o.Zerl (APT not self-destroying)

c) Night Fighters

Same as a) or b) except for night tracer in place of tracer or without tracer or night tracer.

d) Night Fighters with oblique mounted weapons will belt only M-projectile rounds.

e) Bomber, ground-attack, and fighter aircraft in attacking ground targets, ships and boats,

3 2cm M-Gesch.Patr. o.Zerl (M-projectile, not self-destroying)

1 2cm Pz.Sprgr.Patr.o.Zerl (APHET not self-destroying) or 2cm

Br.Sprgr.Patr.o.Zerl (HEI not self destroying) or 2cm Pzbrgr.El (or Ph) o.Zerl (API not self destroying)

(In place of the M-projectile rounds and armor-piercing incendiary rounds it is better here to use up existing stocks of high-explosive-incendiary rounds and armor-piercing high explosive rounds),

(If, due to shortages, self-destroying ammunition is used, an attack altitude of at least 800 meters in horizontal flight must be kept.)

(4) 3 cm Weapons (MK 103)

- a) Fighter Aircraft.
 - 1 3cm M-Gesch.Patr.L'spur m.Zerl (M-projectile/tracer, self destroying)
 - 1 3cm Bgr.Patr.103 El.o.Zerl (Incendiary, not self-destroying)
- b) Bomber, ground-attack, and fighter aircraft in attacking ground targets.
 - 3 3cm M.Gesch.Patr.o.Zerl (M-projectile not self-destroying).
(Here it is preferable to use up 3cm Spgr.Patr.o.Zerl (HE not self-destroying.)
 - 1 3cm Pz.Sprgr.L'spur.o.Zerl (APHET not self-destroying)

 - In attacking boats
 - 3cm Pzbrgr.Patr.L'spur o.Zerl (APIT not self-destroying)
- c) Aircraft for attacking tanks.
 - 1 3cm H-Pzgr.Patr.L'spur.o.Zerl (Special core APT not self-destroying)

Note. - In the case of shortages of some types of ammunition the ammunition listed in parentheses, whose manufacture has been stopped, is to be fired.

In fighting armored ground-attack aircraft such as the IL 2 up to 50% AP ammunition should be belted (however not for 4 motor bombers, since the best results are obtained with blast and incendiary effect against the nacelle.)

(5) 3 cm Weapons (MK 108).

- a) Day fighters and night fighters will belt
 - 1 3cm M-Gesch.Patr.o.Zerl (M-projectile not self-destroying) or 3cm M-Brgr.Patr.108 El m.Zerl (M-projectile Incendiary self destroying)
 - 1 3cm Bgr.Patr.108 El. O.Zerl (Incendiary not self destroying)
(or only M-projectiles)
- b) Night fighters with oblique mounted weapons will belt only M-projectile rounds.

Nightfighter munitions use night tracer (Glimmspur).

(6) 3.7 cm Weapons (3.7 cm Flak 18, 3.7 cm Flak 43)

a) Aircraft for attacking ground targets and landing operations,

2 3,7cm Sprgr.Patr.L'spur m.Zerl (HET self-destroying)

1 3,7cm M-Gesch.Patr.L'spur m.Zerl (M-projectile/tracer self-destroying)

13,7cm Br.Sprgr.Patr.L'spur m.Zerl (HEIT self-destroying)

b) Aircraft for attacking tanks.

Only 3.7cm H.-Pzgr.Patr.L'spur o.Zerl (Tungsten core AP not self-destroying)

(7) 5 cm Weapons (5 cm BK).

a) Aircraft for attacking air targets.

Only 5cm M-Gesch.Ptr.Gl'spur BK m.Zerl (M-projectile/night tracer self-destroying)

b) Aircraft for attacking ground targets.

1 5cm Sprgr.Patr.BK o.Zerl (HE not self-destroying)

1 5cm Pzsprgr.Patr.L'spur BK o.Zerl (APHET not self-destroying)

(8) 7.9mm aircraft weapons.

a) MG 17 (Fighters)

5 S.m.K-v (AP - high velocity)

4 P.m.K-v (API - high velocity)

1 B.-Patrone-v (Observation cartridge - high velocity)

and before the last 50 rounds of the belt (as counters)

10 S.m.K L'spur 100/600 (APT high velocity) for day fighting

or

10 S.m.K Gl'spur (APT high velocity night tracer) for night fighting

b) MG 17 (for ground attack use)

MG 81 (flexible and in auxiliary container)

MG 15

2 S.m.E (SAP)

2 S.m.K L'spur 100/600 (APT)

or

2 S.m.K.Gl'spur (APT with night tracer)

2 P.m.K-v or (1 P.m.K-v and 1 B.-Patrone)