

HANDBOOK OF ENEMY AMMUNITION

PAMPHLET No. 7

ITALIAN FUZES, GAINES, SHELL, CARTRIDGES,
PRIMERS AND DETAILS OF SHELL MARKINGS.
GERMAN PRIMERS, SMALL ARM AND GUN
AMMUNITION

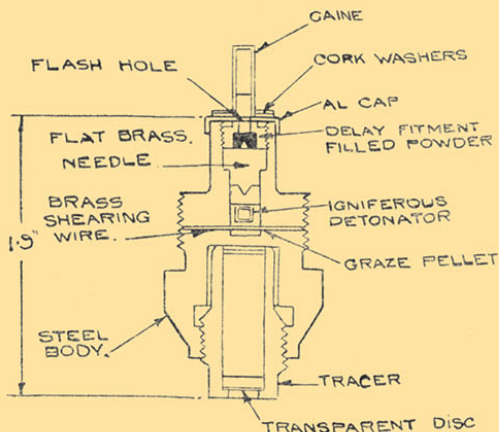
by Command of the Army Council

L. D. D. D. D.

THE WAR OFFICE,
5th June, 1943.

NOT TO BE PUBLISHED.

The information given in this document is not to be communicated, either directly or indirectly to the Press or to any person not holding an official position in His Majesty's Service.



CONTENTS

Italian Ammunition

	PAGE
Markings on A.P., H.E., Hollow Charge and Shrapnel Shell ..	3
D.A./Graze Fuze with Clockwork Safety Device	6
Time Fuze Graduated to 13.2	8
Time Fuze Graduated to 160	12
Inneschi Graze Fuze	16
Gaines for H.E. and Piercing Shell	18
Primer, Percussion, Q.F., Cartridge, Model 35	20
47/32 Cartridge, Q.F., H.E. with Fuze.. .. .	22
47/32 Cartridge, Q.F., A.P. with Tracer Fuze.. ..	26
47/32 Cartridge, Q.F., A.P.B.C. with Tracer Fuze	31
65/17 Cartridge, Q.F., H.E. with Fuze.. .. .	31
75/27 Cartridge, Q.F. (Separate Loading)	33
75/27 H.E. Streamlined Shell, Model 32	35
75/13 Cartridge, Q.F. (Separate Loading)	37
75/13/27 H.E. Shell	37
100/17 Cartridge, Q.F. (Separate Loading)	39
100/17 H.E. Streamlined Shell	39
100/17 Hollow Charge Shell with Internal Base Fuze	41

German Ammunition

Primer, Percussion, Q.F. Cartridge C/13nA	44
Primer, Percussion, Q.F. Cartridge C/33	45
2 cm. Solothurn S.A. Cartridge with A.P./T. Shot (Tungsten Carbide Core) (2 cm. Pzgr. 40)	45
3.7 cm. Pak Cartridge, Q.F., A.P. with Tracer Fuze Bd.Z. 5103 or 5103*	47
7.5 cm. Pak 40 Cartridge, Q.F., A.P.C.B.C. with Tracer Fuze Bd.Z. 5103* (Panzergranate 39)	50
7.5 cm. Pak 40 Cartridge, Q.F., H.E. with Fuze Kl.A.Z.23 (Sprenggranate 34)	53
7.5 cm. Kw.K. 40 and Stu K 40 Cartridge, Q.F., A.P.C.B.C. ..	54
7.5 cm. Kw.K. 40 Cartridge, Q.F., H.E.	54
10.5 cm. I.F.H. 18 Q.F. Cartridges	55

NOT TO BE PUBLISHED

The information given in this document is not to be communicated, either directly or indirectly, to the Press or to any person not holding an official position in His Majesty's Service.

HANDBOOK OF ENEMY AMMUNITION

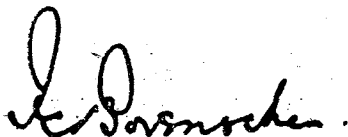
PAMPHLET No. 7

**ITALIAN FUZES, GAINES, SHELL, CARTRIDGES,
PRIMERS AND DETAILS OF SHELL MARKINGS
GERMAN PRIMERS, SMALL ARM AND GUN
AMMUNITION**

By Command of the Army Council,

THE WAR OFFICE,

5th June, 1943.



ITALIAN MARKINGS ON A.P., H.E., HOLLOW CHARGE AND SHRAPNEL SHELL (Fig. 1)

The following markings have been met with in the course of examining captured Italian shell of the above-mentioned types. The types bearing these markings are of recent manufacture. The markings of earlier types do not always conform to the system.

Basic Colours of Body

With each of the types the body of the shell is pale blue (almost a light grey) and the head (*i.e.*, from nose to just above the shoulder) is red. When a cap is fitted to the shell the cap is red. The 100/17 hollow charge shell is an exception in that the cap is orange. Whether this is by design or is due to a variation in the shade of colour is not yet clear. These basic colours are normally applied by a process similar to sherardizing instead of by painting. The result is a flat finish and the absence of an obvious coating.

Bands

A green band immediately above the driving band is found on shell both of the piercing type and normal nose fuze H.E. type when filled T.N.T. or amatol.

A brown band immediately above the driving band is found on shrapnel shell.

A white band appears to be the distinguishing marking of shell designed for the attack of armour. With armour piercing shell the band is at the approximate centre between the shoulder and the driving band. With hollow charge shell the band is immediately above the driving band.

Stencilling

The following particulars regarding the shell are normally stencilled in black between the shoulder and the driving band:—

- (a) Weight of filled shell in kilograms.
- (b) Nature of bursting charge. Shell filled with cast T.N.T. either by the pouring process or in the form of blocks are stencilled "TRITOLO." Those filled cyclonite/T.N.T. are stencilled "TRITOLITE." Shell filled amatol are stencilled "Amatolo."
- (c) Letters indicating the filling factory followed by the last three figures of the year of filling.
- (d) The calibre of the equipment in millimetres followed by an oblique stroke and the length of the piece expressed in terms of calibres.

The marking "Migl" indicates a modified design.

H.E. (T.N.T.)

A.P. (T.N.T.)

A.P.B.C. (T.N.T.)

SHRAPNEL.

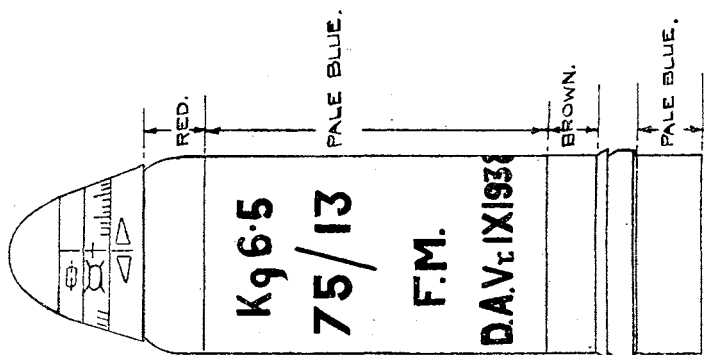
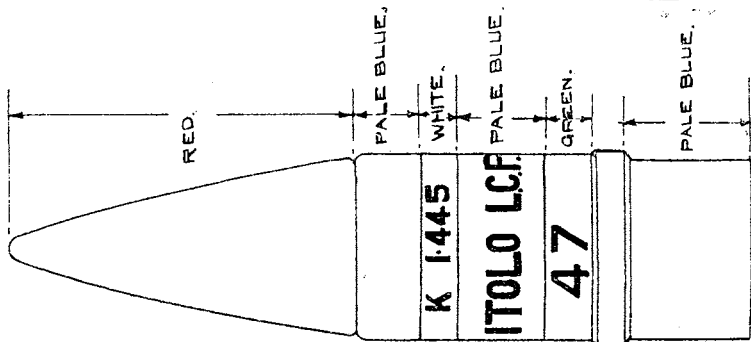
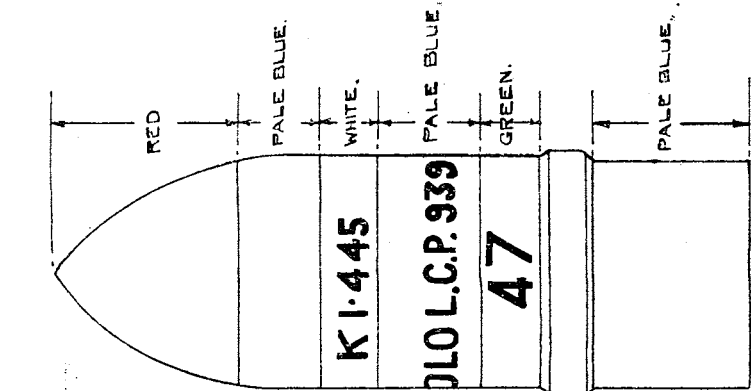
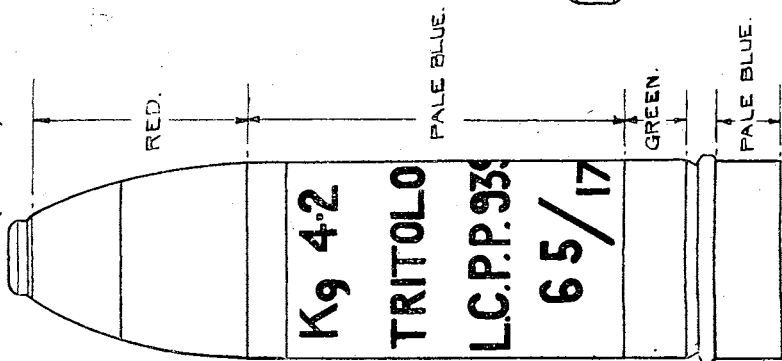


Fig. 1

Italian Shell, Typical Markings
(For 100/17 Hollow Charge Shell, see Fig. 19)

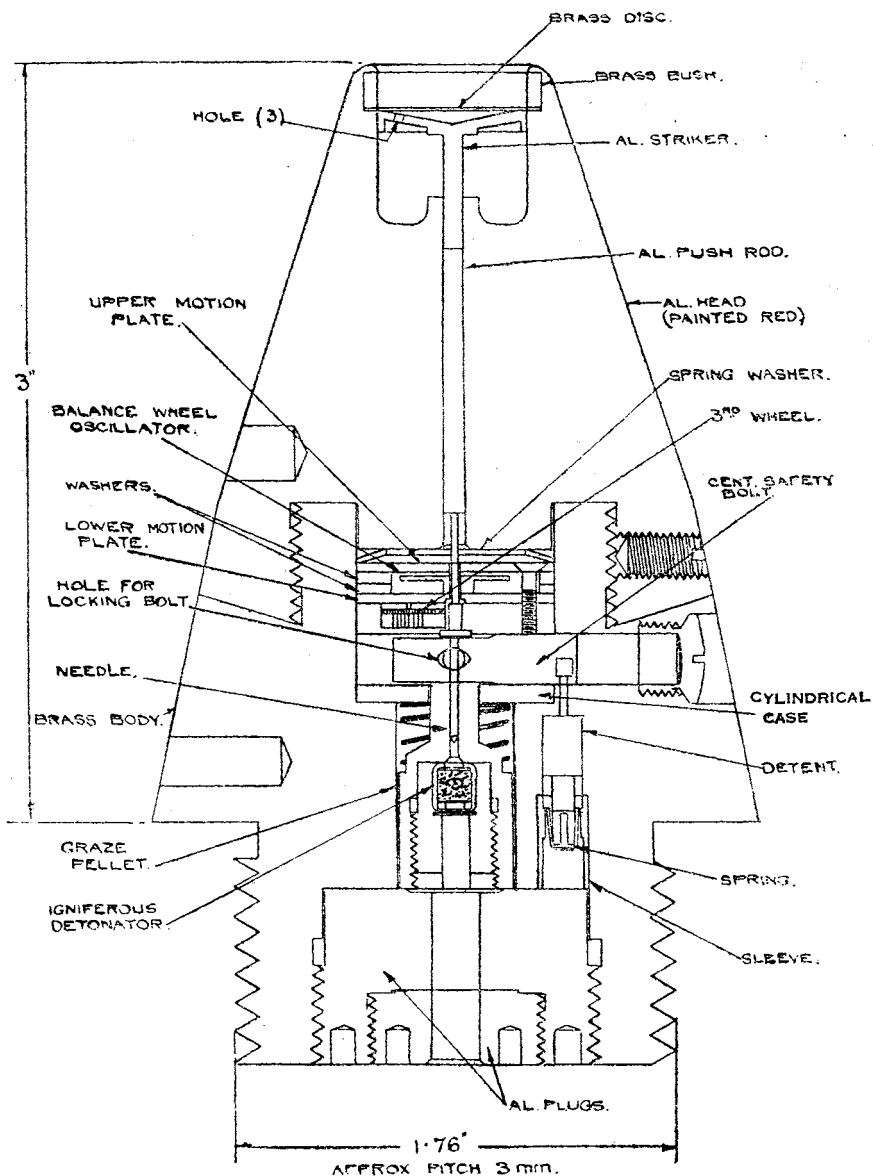


FIG. 2

Italian D.A./Graze Fuze with Clockwork Safety Device