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BIBLIOTECA DO EXERCITO	
(Antiga Biblioteca do L. V. E.)	
N.º 917	Caso
Aumentado em 17-9-19	Corres 1
Livro N.º	Pag. D.G.M.D./S/604.

400 (51.2)

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INSTRUCTIONS

for the use of

4.5 inch, Howitzer, Q.F., Incendiary, Shell.

D.G.M.D.

S

1834

This shell is intended for incendiary effect against crops, undergrowth, houses, and inflammable material generally.

Filling.—A shalloon bag containing the powder charge is placed in the bottom of the shell cavity. A felt washer is placed on the shoulder, and the steel disc, with primer screwed in the central hole, assembled into the felt washer as shown. A felt washer is placed on top of the steel disc and on this a steel support in halves. One of the filled incendiary cases is then placed inside the steel support. A felt washer, steel washer, and felt washer, are assembled in order on top of the incendiary case.

The remaining six incendiary cases are then assembled with the annulus between the cases and cavity filled with the steel supports of decreasing thickness and paper collars of increasing thickness, with felt and steel discs between. The top annulus is completely filled with the thicker paper collar only, as shown.

On the top star is placed a felt washer, then a steel washer and wood block. The head is next assembled, with a lead washer on the shoulder of the recess, the joint made with Pettman cement, and the head secured by four brass shearing screws, and six steel twisting pins.

Each incendiary case is filled with incendiary composition, two holes being formed in the top and filled with magnesium igniting composition into which is embedded lengths of quickmatch.

The top of the composition is covered with a paper washer.

Action.—The flash from the fuze is transmitted through the central holes in the incendiary cases, lighting the lengths of quickmatch and the primer.

At the top of the primer, a short delay column has to burn through before the powder pellets below transmit the flash to the powder charge. The short delay in the primer gives time for the incendiary cases to become ignited, before the powder charge blows them out of the nose of the shell. (The set back of the head on shock of discharge partially shears the brass shearing screws, thus facilitating the ejection of the cases.)

The incendiary cases are erratic in flight, and the angle of opening gives a wide area of possible incendiary effect.

The shell can be identified as follows :—

- (1) The shell is painted Red, and the letters "INCDY." and design number of filling are stencilled on the body. One vermilion and two black rings are painted round the nose of the shell.

The calibre, mark, and weight of each shell are stencilled on the body.

- (2) Packages are painted Red.

The fuze to be used is number 82. The setting of the fuze should be the same as for Shrapnel.

It is essential that this ammunition be stored and transported separate from other ammunition.

It is classed under GROUP IV, DIVISION I, and will be issued PLUGGED.

NOTE.—The service Range and Fuze scale is suitable. The weight of the shell is 34 lb. 11 oz.

D.G.M.D.,

MINISTRY OF MUNITIONS,

WHITEHALL, S.W.1.

June, 1917.