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TAMESE AMMUNITION

CLAMN. TECHNICAL REPORT

GRENADE, HAND,
H. E., TYPE '98 (STICK TYPE)

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THE CHIEF INSPECTOR OF AMMUNITION, KIRKEE,

1945.

JAPANESE AMMUNITION

C.I.AMN. TECHNICAL REPORTS

REPORT NO.45

JULY 1945

GRENADE HAND, H. TYPE '98 (STICK TYPE) GENERAL

This grenade, in design and general appearance, closely resembles the German Stick Grenade, Model 24 (Stielhandgranate 24). The Japanese grenade is, however, considerably smaller in size and the H.E. charge is less than half that of the German The Language of cast iron t of the German dy i Jan grenade ti the German enade has a ght-gau is flected ir compara-.Ve 02 grenade gainst 19-oz.for he German grenade relies for its effect lad blast while the Japanese stick grenade is a fragmentation The fragmentation effect is of a slightly lower order than the Type '97, see C.I.Amn. Technical Report No. 5 (Second Issue).

na used by the known bel er ye been received d 11 ndia grenade sion igniter and differs considerably a me Type '98 H. Stick Grenade.

3. The description of the "Grenade, Hand, H.E. Type '98 (Stick Type)" given below is based on actual examinations carried out at Kirkee.

DRSCRIPTION

4. The drawing in the accompanying Plate gives full details of the construction of the grenade which can, for convenience of reference, be divided into three main components:-

(i) Body.

(ii) Handle.
(iii) Friction igniter assembly.

BODY COLUMN TO THE STATE OF THE

This is a smooth hollow cylinder of cast iron closed It is painted black both externally and internally and filled with a pressed pellet of picric aci Weight ng This pollet has a waxed paper wrapping ar is recessshown in the The mout ate. the gren de be is clo dbo W lling. (6) Wood en handle is nd ion three uge wood scr Th er c. ar wate compound. A paper label 1-in. wide of the grenade giving instructions

for its use. On the grenades examined here, this label was wet and damaged; actual characters could not therefore be recorded.

HANDLE

This is made well-seasoned light whit 000 shaped kternal to BS od the OW hand. ome/ е kamin We his exter ly some w unvar ed TH han 1y eri full 1 th Wn friction ignite end has right-handed screw threads out cut in the wood to accommodate a tinned plate closing cap which closes the recess at that end of the handle. Under the cap the handle is recessed to take a steel ring to which is attached the pull friction cord. A wax impregnated cloth dist in the closing ap ensures a waterproof joint when the ca S SCI he other end le ircula ha] recess w ar is to ec ke the flange tu of е the cardboa was i el cacks. he ltuminous compound to ensure that Uh. no moisture will penetrate o the interior of the handle and affect the friction igniter which is particularly susceptible to damp.

FRICTION IGNITER ASSEMBLY

be clear from the Flate. It can be divided into two parts:-

- (a) A flanged brass tube which, at one end, takes a piece of white safety fuze; the time of delay being A flanged brass tube 4 to 5 seconds. Against the inner end of the fuze is a small perforated G.P.pellet (1.1-grs pellet is prevented from moving by a light c brass tube. me be G.P. 1 met diame .ca 6 ht tr nd he me containing about 1.7-grs. bet ection composition potassium chlorate and antimony sulphide) through which passes a silk cord the inner end of which is covered with a blob of red phosphorus. The sequence of assembly appears that the paper tube complete with friction co and silk cord SI ed brass t in chi **Ó**6 small n е tub S ht CI erated pellet dropped into n rellowed by ength of safety fuze.
- A detonator consisting of a brass tube containing 7.5-grs. of C.E. in the bottom, on top of which pressed an inverted opper cup holding 8.6-grs. fulmi te of mercur om cup is fora c. he deto tub lightly d in ho posi S latte G Let (1.1-grs.) which is

inserted to boost up the flash from the fuze. A paper tube is then passed over the detonator the end of which is filled with a bituminous compound and finally closed by a paper disc. The intention of this bituminous com-pound is not quite clear. It is thought that its purpose may be to facilitate assembly of the components of the friction igniter to the correct length for insereff ected if the comcould 1 we W the compound was warm and as

ACTION

The tinned plate cap is removed from ned plate cap is removed from the end of the ewing (about two turns) and the middle finger of handle by unscri he throwing har inserted in th metal ring rowing the nade ri reer and e friction cord is \mathbf{r}_{0} igniter te the G.P. oste t te he 0.1 t onds he gases from the G.P.pellet fuze ar ented through the two holes in the brass tube, via the chann in the wooden handle, to the atmosphere.

PACKING

lable, di grenades in ent t ea ine a metal wooden box. at end of the box is 412-lbs. ions are $28\frac{3}{4}$ " x $10\frac{1}{8}$ " x $7\frac{1}{2}$ ".

CHEWICAL ANALYSIS (Chief Inspector of Military Explosives, Kir

H.E. ing id (M. Antinony sulphide binding material. chlora nony sulphide, SS. G Potassium nitrate. Sulphur and Charcoal. Safety Fuze

.. Filling consists of Potassium nitrate. Sulphur and Charcoal. Detonator

.. Fulminate of mercury and C.E.

Grena

of grenade Length of cast iron body Thickness of body wall iameter over DO lameter th cr

grenade

2.81-in. 2-in. in. 1-1b.3-oz.

8-in.

Weight & nature of main filling

Weight of friction

composition

Weight of G.P.pellets

(Zin number)

Length of safety fuze

Diameter of

safety fuze

Time of burning

of fuze

Weight and nature

of detonator filling.

2.65-oz. pressed picric acid block, in waxed paper container.

1.7-grs.

.l-gr.each.

0.21-in.

4 to 5 seconds.

8.6-grs.of fulminate of mercury and 7.5-grs.of

Packing:

Total weight of box, Dimensions of box, external 412-1bs.

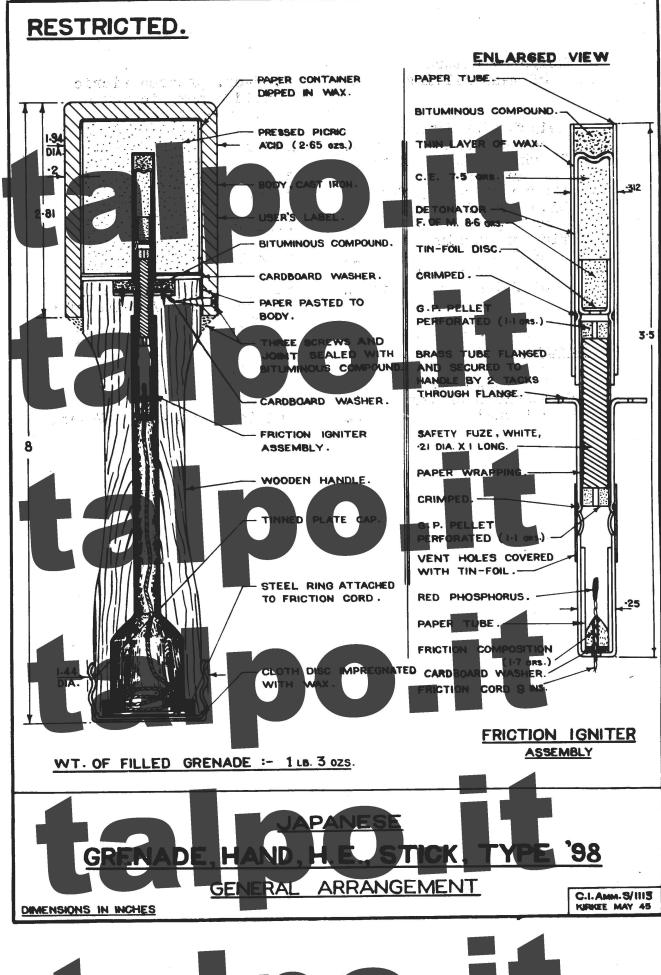
 $28\frac{3}{4}$ -in. x $10\frac{1}{8}$ -in. x $7\frac{1}{2}$ -in.

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