



HAND THROWN GRENADES

***SMOKE PADS FOR PRACTICE MINES
INITIAL DEVICES FOR PRACTICE
CANNON SHOCK SIMULATOR M - 81, P1 TU M-81,P1
SIMULATOR OF INCENDIARY COMBAT AGENTS IZBS M4
FLAME COMPOSITION, PRACTICE VZS-1***

SMOKE PADS FOR PRACTICE MINES

APPLICATION

They are intended for the training of the army while performing exercises of arming and disarming mines. Incorporating in military exercises mine, it's smoke effects, in the activation of military exercises mines imitate the principle of action battles mines.

DESCRIPTION

The body of the pad is cylindrical and made of aluminum, filled with pyrotechnic smoke mixture. Applying of smoke effect in activating of mines imitate the effect of battle mine and tactical preparation and application in combat. Color of smoke is different, depending on the type of the cartridge.

OPERATION

They are used by placing in the appropriate slot of the practice mine. Activate with the appropriate military practice igniter VUMTA-4, VUANU-1, or military practice or electric detonator cap (VDK-8, VKE). Depending of application and the required amounts of smoke they are producing as Smoke pad for anti infantry and anti magnetic practice mine UD for VMPA-1A, Smoke pad for anti infantry fragmentation practice mine with a guided effect UD for VMPRUD, Smoke pad for practice tank mine-magnetic UD for VMTA-4 or Smoke pad for practice tank mine-bursting UD for VTMRP-6.

SPECIFICATIONS

	UD za VMPA-1A	UD za VMPRUD	UD za VMTA -4	UD za VTMRP-6
Diameter (mm)	20	20	51	51
High (mm)	50	80	50	50
Weight of pad(g)	32	2	5.5	10.5
Color of smoke	white	white	yellow	yellow
Activation	Appropriate igniter			
Smoke emittion time(s)	min 5	min 10	min 5	min 5
Shelf life	5 years			

Transport packing : waterproof carton box

Inner packing : PE bag

UN 0431

Class 1.4G

	UD for VM PA - 1A	UD for VM PRUD	UD for VTM MA-4	UD for VTM RP-6
Dimensions of the box (mm)	200x200x250	200x275x380	250x250x250	250x250x250
Number of units	400	400	100	100
Gross weight of transportpack (kg)	26	25	23	24



INITIAL DEVICES FOR PRACTICE

APPLICATION

Initial devices for practice are intended for completion and initiation of practice mine (igniters for practice), training soldiers and officers in arming and disarming mines, to activate the smoke pads of practice mines and explosive charges for exercise, as well as the training to perform mining.

DESCRIPTION

Igniter practical, antimagnetic, tread, universal VUANU-1, is a universal type, with a body made of plastic, and the initial part of practice blasting cap. VDK-8 is cylindrical shape, made of aluminum. Consists of aluminium shell and pyrotechnic detonating mixture. The bottom of the cap is painted white and marked with the letter "V". Pyrotechnic mixture is pressed into the cap in three layers. The first two layers are used for burning of cap and activating of device, and a third layer to transfer initiation from safety fuse. VUMTA-4 is made of plastic, with the corresponding propellant pyrotechnic mixtures. VKE consists of cap with a pyrotechnic mixture and electrical flammable head. Pyrotechnic mixture is pressed into the cap in three layers. The first two layers are used for burning of cap and activating device, and the third layer is used for the transfer of initiation from the EZG. Electrical flammable head (EZG) is intended for transmission of initiation to pyrotechnic mixture.

OPERATION

VUANU-1 is applying by putting on the provided place at practice mine. Trampling across the igniter, mixture is activated and transfer impulse to VDK-8 which activates smoke pad. VUTMA-4 is putting into position at practice mine VTMA-4, and activating the igniter is activating smoke pad that imitates the principle effects of lethal mines. VKE is activated electrically by means of electrical machines ignition or manual inducer. VDK -8 activated with safety fuse. By activating the fuse, impulse is transmitted to the primer when is releasing white smoke.

SPECIFICATIONS

	VUANU-1	VUMTA-4	VKE	VDK-8
Diameter (mm)	20	38	7	7
Hight (mm)	76,5	50	56	45
Weight (g)		72	15,1 ±0,2	1,9
Force of activation	80280N	80 daN220DaN	-	-
Shelf life	5 years			

Transport packing : waterproof carton box

UN 0431

Class 1.4G

	VUANU-1	VUMTA-4	VKE	VDK-8
Dimensions of the box (mm)	245x270x280	300x290x300	320x245x270	280x270x245
Number of units	300	120	500	4200
Gross weight of transport pack (kg)	8,7	8	9	7



CANNON SHOCK SIMULATOR M - 81, P1 TU M-81,P1

APPLICATION

TU M-81 is an explosive device intended to simulate effects of artillery and mortar firing by flash, sound and smoke effects. It is applied widely for tactical training to simulate real battlefield conditions. The sound effects range up to 1200 m and smoke up to 1300 m.

DESCRIPTION

The body is made of polystyrene, olive-gray color, cylindrical shape, filled with black powder. Under cover cap is placed friction or electrical impulse igniter

OPERATION

Activation is with friction or an electrical impulse, with time delay of 25s, in which the operator throws activated UT-M81 to a safe distance. After an appropriate delay time is activating primary pyrotechnic charge (Black powder) which produces a burst strength of about 120 dB, with the releasing of smoke

SPECIFICATIONS

Diameter : 45 mm

Height : 105mm

Explosive loading: black powder

Mass of explosive loading : 65 g

Activation:

F-Safety fuse

E-Electric firing cap

Delay time: 25-30s

Activation: by hand

Shelf life : 5 years

Transport packing : waterproof carton box

Inner packing : PE bag

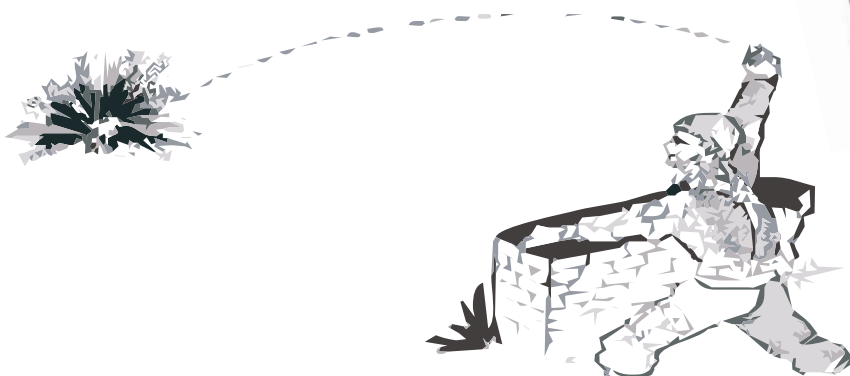
Dimensions of box: 530x270x220mm

Number of units in the box: 100

Gross weight of transport packing: 18 kg

UN 0432

Class 1.4 S



SIMULATOR OF INCENDIARY COMBAT AGENTS IZBS M4

APPLICATION

IZBS M4 is intended for imitation of combustible air bombs of small caliber, flame fugasses and fire developed by a nuclear explosion. Fire could be simulated at clothing, equipment, armament and ground. It is used in training, tactical exercises and training in fire protection. IZBS-M4 makes it possible to see the effects of flame agents action, train personnel in fire prevention measures, train personnel in overcoming fire obstacles and fear of fire.

DESCRIPTION

IZBS M4 is flammable device, presenting sticky viscous mass of petroleum based products and rubber. Due to its low density, floats and burns at water surface. In order to increase the flame can be diluted by petrol in any ratio.

OPERATION

IZBS M4 is scheduling on the field provided for the exercising. Ignition of IZBS M4 is performing with electric igniter at the latest 30 minutes after the spilling. Optimal conditions for the application are the air temperature 5-30°C and air velocity up to 3m / s.

SPECIFICATIONS

Weight: 4 kg
Weight of flammable liquid: 3,4 kg
Effective diameter: 6 – 8m
Time of burning: 3 min.
Safety zone: 20 m
Activation: electric igniter
Mass of explosive loading in igniter: 25 g
Shelf life : 2 years

Transport packing of IZBS M4: waterproof carton box
Dimensions of box: 235x335x290mm
Number of units in the box: 4
Gross weight of transport packing: 18 kg
UN 1287
Class 3
Transport packing of igniter: waterproof carton box
Dimensions of box: 335x335x290mm
Number of igniters in the box: 60
Gross weight of transport packing: 8 kg
UN 0431
Class 1.4G



FLAME COMPOSITION, PRACTICE VZS-1

APPLICATION

VZS -1 is intended for the realistic simulation of flame combat agents and thermal effects of nuclear explosion. Fire could be simulated at clothing, equipment, armament and ground. It is suitable for a wide variety of training purposes including fire prevention. VZS-1 makes it possible to see the effects of flame agents action, train personnel in fire prevention measures, train personnel in overcoming fire obstacles and fear of fire.

DESCRIPTION

VZS -1 is flammable device, presenting sticky viscous mass of petroleum based products and rubber. Due to its low density, floats and burns at water surface. In order to increase the flame can be diluted by petrol in any ratio. It is in plastic barrels.

OPERATION

It is applying by spilling at the field provided for the exercising. Ignition of VZS is performing with open flame at the latest 30 minutes after the spilling. Optimal conditions for the application are the air temperature 5 - 30 °C and air velocity up to 3m / s.

SPECIFICATIONS

Diameter: 270mm
High: 410mm
Weight of loading: 13 kg
Time of burning: 25 min.
Activation open flame
Shelf life : 2 years

Transport packing : waterproof carton box
Dimensions of box: 555x285x422mm
Number of units in the box: 2
Gross weight of transport packing: 30 kg
UN 1287
Class 3

