

USER'S MANUAL

# Mab

Fire extinguisher hand grenade for fires of class A, B and C



Eco-Friend

**FLAMARK**<sup>®</sup>  
wins over fire

Congratulations, and thank You for choosing this outstanding fire fighting device from Flamark. Flamark is the leading company in the research, development and manufacture of advanced fire fighting systems and devices.

## Product and its properties

Mab is fire extinguisher hand grenade specially developed for extinguishing of solids – fire class A (wood, paper, textiles...) and liquids – fire class B (gasoline, diesel fuel ...) as well as for flammable gases – fire class C in closed and opened spaces. It is also suitable for extinguishing of electrical devices.

Mab fire extinguisher hand grenade is so easy to activate and use, that it provides immediate response and have great extinguishing power along with ecologically features. It is most suitable for initial fires, but can also be used for extinguishing of advanced fires. In that case it is recommended to dilute hand grenades content in the water with ratio of 1:16 (content of one Mab fire extinguisher hand grenade in ca 8 liters of water).

It activates by throwing Mab fire extinguisher hand grenade into the fire or by throwing a water solution of content of Mab fire extinguisher hand grenade into the fire.

When properly sealed, Mab liquid remains effective in minimal 5 years, without any maintenance. It requires

only visual control.

Mab liquid and gas, which generates during the use, are harmless, and Mab is one really ecological product. It is not toxic, and don't require special handling and recycling.

Mab comes as set, which contains of:

- Resin grenade
- Plastic holder
- Mounting screws
- Mab wall fire extinguisher sing

## Installation

Mab is intended to be stored or installed near the places with high risk of fire, and can be easily fixed by a holder at a significant place, t ex near to first-aid kit, near to entrance, near to valuable items and so on.

If it will be installed fixed, on the suitable place, it is best to let trained staff to do it (chose a place, fix it and control it).

If You decide to install Mab yourself, You have to follow next recommendations when choosing a place for installation:

1. Install near areas of high fire risk.
2. Install to some place easy accessible to anyone (included child and disabled persons).
3. If it is possible, install Mab grenade in every room.

If You decide to install Mab Yourself, handle product carefully, because it is designed to burst even if it falls down from a height of 40-50 cm.

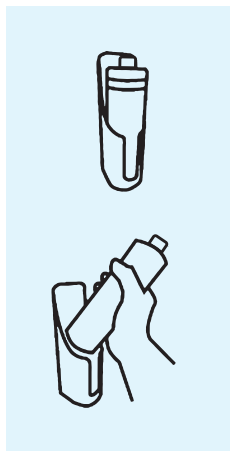
Do it this way:

1. Remove the Mab grenade from the box.
2. Take Mab grenade easily from the holder
3. Attach the holder vertically to the wall or another surface for mounting.
4. Put the grenade back in the holder, and control is it correctly fixed.
5. Put the sticker for marking of the position on the wall near the Mab.

## How to use Mab

There are two ways to use Mab. Take & throw, or dilute with water.

Mab fire extinguisher hand grenade is ready to use extinguisher and it does not require any preparation for use. Use is mostly intuitive, so operation errors are virtually impossible. If it is used in Take & throw mode, do it this way:

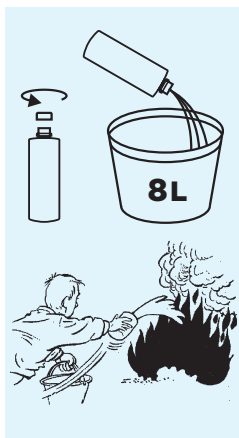


1. Take it from the holder.
2. Throw it against the wall or anything that would help the liquid to disperse over the burning area, or throw it straight in the direction of the roots of fire.

Don't throw it directly on burning oil or other liquid burning materials, as it can cause burning material to spread!



If it is used in dilution mode, for fighting a larger fire, do it this way:



1. Prepare a bucket with approximately 8 liters of water.
2. Open the cap on Mab grenade.
3. Pour out the Mab liquid agent into the bucket and stir.
4. With help of suitable container throw the mixture (by 4 – 5 dl) onto the burning area.

## Limitations

Mab is intended to extinguish fires of class A, B and C, and is suitable for extinguishing of electrical devices. It is not capable to extinguish other classes of fire.

If Mab ampoule is broken or damaged, its extinguishing power can be greatly reduced.

If Mab is not properly installed, it can be inaccessible for some persons.

Even if we have evidence of Mab's functionality up to 8 years after

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installation, we recommend to change it after 5 years, which is manufacturers guarantee.

Under ideal conditions Mab reaches its maximal effectiveness, but there are conditions which can limit its performance.

## Warnings

If You use Mab as extinguishing hand grenade, dont throw it directly on burning oil or other liquid burning materials, as it can cause burning material to spread!

If liquid gets into eyes, rinse with water. It is not dangerous for normal skin.

If Mab grenade become broken for any reason, remove its liquid and broken plastics with cleaning cloth.

Generally, one Mab unit is intended for

effective extinguishing of a 12 m<sup>3</sup> indoor fire, but if there are flammable materials in environment, it is possible that more Mab grenades will be necessary to extinguish a fire.

Mab is ecological, non toxic, environmental friendly product, so, after use or after end of its shelf life, it is not necessary to handle it as a dangerous waste.

## Standards and declaration of conformity

Fire classification A, B and C, according to EN2:1992 + A1 2004 and EN3-7:2004 + A1 2007.

Declaration of conformity for Mab fire extinguisher: it is manufactured according to Regulation No. 1272/2008 (CLP).

5  
years

Certificate of Warranty



Eco-Friend

Manufactured by:

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