

MARLOWE

FIRE & SECURITY

Fire Extinguisher Information & User Guide



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MARLOWE Critical Services

1 Introduction

If we discover a fire or see smoke in our work area, the first thing we should do is sound the alarm.

By sounding the alarm, we put into practice a safety system which allows everyone in the workplace to make their means of escape to a predetermined place of safety.

In order to assist or enable your escape you may need to use a Portable Fire Extinguisher.

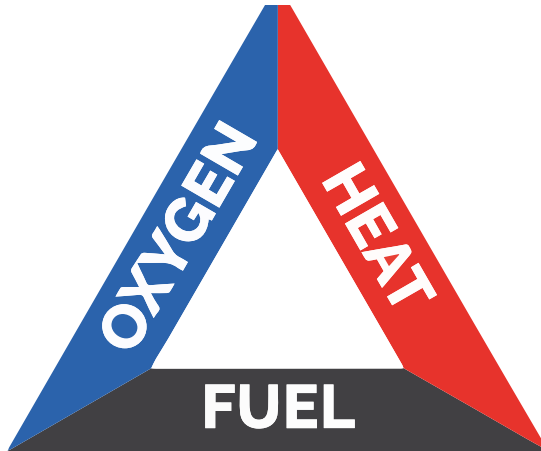
It is important you know which fire extinguisher you should use in each instance.

This user guide explains each type of Portable Fire Extinguisher and how to use it in case of an emergency.

2 Fire Fighting

Portable Fire Extinguishers and Fire Blankets are designed as First Aid Fire Fighting Equipment you should not spend more than ten seconds taking control of a fire. Do not put yourself or others at risk and always keep your means of escape behind you when tackling a small fire.

2.1 The Fire Triangle








To have combustion we require three elements. They are:

- **Heat, Fuel and Oxygen**
- **Oxygen** is 21% of the air we breathe; it surrounds us all the time
- **Fuel** can be any combustible material

All we need is a source of **Heat** and we have combustion.

Fire extinguishers work by removing one or more of the above elements.

2.2 Types of Portable Fire Extinguishers

Water Extinguisher	
Powder Extinguisher	
Foam Extinguisher	
CO2 Extinguisher	
Wet Chemical Extinguisher	
Fire Blanket	



2.3 Water Fire Extinguisher



Water Extinguishers are the most common and cover freely burning materials such as:

- Paper
- Wood
- Curtains

Water Extinguishers are not safe on electrical risks or flammable liquids such as cooking oils, petroleum, and petroleum products.

2.4 Powder Fire Extinguisher



Powder Extinguishers are multi-purpose extinguishers that cover the following types of fire:

- Freely burning materials such as paper, wood, curtains, etc.
- Flammable liquids such as petrol, diesel, white spirits, etc.
- Flammable gases such as Butane, Propane, etc.
- Electrical Risk fires

Powder is not suitable on cooking oil fires. Powder is not for use in enclosed spaces.

2.5 Foam Fire Extinguisher



Foam Extinguishers are dual purpose and provide cover for freely burning materials such as the water extinguisher does. It also provides cover for the following flammable liquids:

- Petrol
- Diesel
- White Spirits

Foam Extinguishers are not safe to use on cooking oil.

2.6 CO2 Fire Extinguisher

Carbon Dioxide Extinguishers cover electrical risk fires, and liquid fires.

CO2 Fire Extinguishers are a clean agent. They do not have the cooling effect of a Foam Extinguisher, meaning that if there is a fuel fire, the person operating the extinguisher may need to follow up with a Foam Extinguisher.

2.7 Wet Chemical Fire Extinguisher

Wet Chemical Extinguishers are designed for Cooking Oil fires only.

Stand at least a metre away from the deep fat fryer and then discharge into the deep fat fryer.

They also cover freely burning materials such as paper wood curtains.

2.8 Fire Blanket

Fire Blankets are used to smother smaller fires, cutting off the oxygen supply.

Fire Blankets can cover the following:



3 Colour Codes







There are five different types of fire extinguisher which are set apart by different coloured bands at the top of the extinguisher. Their purpose is to make identification easier and faster for the user.

These codes are as follows:

Type	Old Code	BS EN 3 Colour Code	Fire Class
Water	Signal Red	Signal Red	A
Foam	Cream	Red with a cream panel above the operating instructions	A, B
M28 Powder	Blue	Red with a blue panel above the operating instructions	A, B, C
Carbon Dioxide	Black	Red with a black panel above the operating instructions	
Halon	Emerald Green	No longer produced – illegal in the UK	A
Wet Chemical	Canary Yellow	Red with a yellow panel above the operating instructions	A, F

4 Which Portable Fire Extinguisher to Use

Each extinguisher is designed to be used on a specific class of fire. It is important to use the right extinguisher to ensure that your actions are as effective as possible and don't further ignite the fire.

						
	Wood, Paper, Plastic	Flammable Liquids: Petrol, Oil, etc.	Flammable Gases: Propane, Butane, etc.	Metals. Magnesium, Swarf	Electrics, Computers, etc.	Cooking Oil & Fats
AFF FOAM	✓	✓				
WATER	✓					
WET CHEMICAL	✓					✓
WATER ADDITIVE	✓					
CO2		✓			✓	
ABC POWDER	✓	✓	✓		✓	
BC POWDER		✓	✓			
D POWDER				✓		
L2 POWDER				✓		

5 How to Use An Extinguisher

5.1 Water Fire Extinguisher

1. Before attempting to fight a fire with a fire extinguisher it is important to check that it is fully charged (Fig. 1) and the safety pin is not bent (Fig. 2).
2. Ensure you remain a safe distance from the fire and remove the safety pin (Fig 3). This will break the tamper seal.
3. Where to aim the fire extinguisher hose:
 - a. Fire spreading horizontally: Aim the hose at the base of the fire, moving the jet across the area of the fire.
 - b. Fire spreading vertically: Aim the hose at the base of the fire, slowly moving the jet upwards following the direction of the fire.
4. Squeeze the lever slowly to begin discharging the extinguisher. As the fire starts to diminish, move closer to it.
5. Ensure all the fire has been extinguished; try to focus on any hot spots that may re-ignite.

5.2 Powder Fire Extinguisher

1. Before attempting to fight a fire with a fire extinguisher it is important to check that it is fully charged (Fig. 1) and the safety pin is not bent (Fig. 2).
2. Ensure you remain a safe distance from the fire and remove the safety pin (Fig 3). This will break the tamper seal.
3. Where to aim the fire extinguisher hose:
 - a. Solid Materials: Aim the hose at the base of the flames, moving across the area of the fire.
 - b. Spilled liquids: Aim the hose at the near edge of the fire and with a rapid sweeping motion; drive the fire towards the far edge until the flames have been extinguished.
 - c. Flowing liquid: Direct the hose at the base of the fire and sweep upwards until the flames have been extinguished.
 - d. Electrical equipment: Switch off the power (if safe to do so) and then direct the hose straight at the fire.
4. Squeeze the lever slowly to begin discharging the extinguisher. As the fire starts to diminish, carefully move closer to it.
5. Ensure all the fire has been extinguished; re-ignition can be possible when a powder fire extinguisher has been used.

5.3 Foam Fire Extinguisher

1. Before attempting to fight a fire with a fire extinguisher it is important to check that it is fully charged and that the safety pin is not bent (Fig. 2).
2. Ensure you remain a safe distance from the fire and remove the safety pin. This will break the tamper seal.
3. Where to aim the fire extinguisher hose:
 - a. Flammable liquids: Aim the hose at a vertical surface near the fire, do not spray directly at the fire as this could cause the fire to be pushed and spread to surrounding areas.
 - b. Foam extinguishers allow a build up of foam across the surface of the fire causing it to be smothered.
 - c. Solid combustibles: Aim the hose at the base of the fire, moving across the area of the fire.
4. Squeeze the lever slowly to begin discharging the extinguisher, as the fire starts to diminish carefully move closer to it.
5. Ensure all the fire has been extinguished, the foam creates a blanket over the fire and helps to prevent re-ignitions.

5.4 CO2 Fire Extinguisher

1. Before attempting to fight a fire with a fire extinguisher it is important to check that it is fully charged (Fig. 1) and the safety pin is not bent (Fig. 2).
2. Ensure you remain a safe distance from the fire and remove the safety pin (Fig 3). This will break the tamper seal.
3. **DO NOT** hold the horn as it becomes extremely cold during use and can lead to severe frost burns.
4. Aiming the extinguisher:
 - a. Flammable liquids: Aim the horn at the base of the fire and move across the area
 - b. Electrical equipment: Switch off the power (if safe to do so) and then direct the hose straight at the fire
5. Squeeze the lever slowly to begin discharging the extinguisher. As the fire starts to diminish, carefully move closer to it.
6. Ensure all the fire has been extinguished as re-ignition is possible when a CO2 extinguisher has been used.

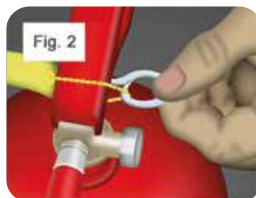
5.5 Wet Chemical Fire Extinguisher

1. Before attempting to fight a fire with a fire extinguisher it is important to check that it is fully charged (Fig. 1) and the safety pin is not bent (Fig. 2).
2. Turn off the heat source if it safe to do so.
3. Ensure you remain a safe distance from the fire and remove the safety pin (Fig 3). This will break the tamper seal.
4. Hold the lance at arm's length, well above the fire with its nozzle at least 1 metre away from the fire.
5. Squeeze the lever slowly to begin discharging the extinguisher.
6. Apply the fine spray in slow circular movements. This allows the wet chemical agent to fall gently onto the surface of the fire and helps to prevent hot oils splashing on to the user.
7. Discharge the entire contents of the extinguisher to ensure that all of the fire has been extinguished; the wet chemical formula helps to prevent re-ignition.

5.6 Fire Blanket

1. Turn off the heat source if it is safe to do so (**DO NOT** attempt to move the pan).
2. Pull the tapes to release the blanket from its container.
3. Hold the blanket in a shield position and if possible, wrap the blanket around your hands for protection.
4. Place the blanket gently over the pan/container to smother the fire.
5. Leave the pan to cool completely – **DO NOT** attempt to uncover until it is completely cool.

Fire Blankets can also be used on fire involving personal clothing, simply wrap the blanket tightly around the fire to smother.



Customer Charter

Marlowe Fire & Security provide a total, end to end, fire and security solution. From initial design, supply and installation, through to ongoing maintenance and monitoring, we maintain the capability to help prevent, detect and monitor your fire and security risks.

Our Purpose

To be your expert and trusted advisor in fire protection and security. Delivering innovative solutions and a world class service.

Our Mission

To protect what matters, people, property and peace of mind.

Our Vision

- Engaged employees.
- Delighted customers.
- Safe and secure environments.

Our Promise

 <p>Competence Our people are our greatest asset</p>	 <p>Compliance We never compromise</p>	 <p>Focussed We deliver what we promise</p>	 <p>Responsive Your time is precious</p>
 <p>Pride We take pride in everything we do</p>	 <p>Specific You are unique</p>	 <p>Improvement We strive for perfection</p>	 <p>Transparent We offer value for money</p>



Your Assurance

If we do not deliver on our promise, please contact the Customer Support Team via e. customer.care@marlowefireandsecurity.com
Your enquiry will be acknowledged immediately, and we promise to investigate and resolve your issue within 5 business days.
