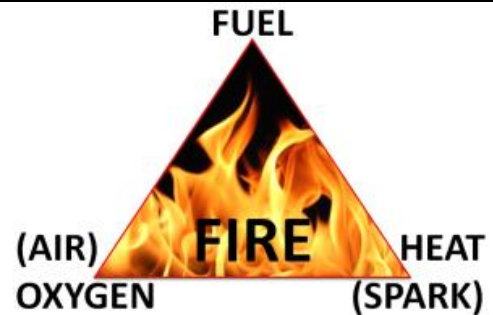


**WHAT IS FIRE?**

It is a chemical reaction of 3 components, in particular

- 1) Fuel,
- 2) Air (Oxygen)
- 3) Heat (Spark/ Ignition)



**WHAT ARE THE EFFECTS OF FIRE?**

Heat is released (exothermic reaction)

It supplies heat/ spark to other nearby combustible material and hence fire spreads.

**WHAT ARE THE TYPES OF FIRE?**

FIRE TYPE	FUEL OR FIRE SOURCE	EXAMPLES OF FUELS
<b>A</b>	Solid Fuel	Trash, Paper, Wood, Coal etc.
<b>B</b>	Liquid Fuel	Petrol, Diesel, Paraffin etc.
<b>C</b>	Gaseous Fuel	Propane, Butane, Methane etc.
<b>D</b>	Metal Fire	Potassium, Magnesium, Sodium, Titanium etc.
<b>E</b>	Electrical Fire	Fire due to electric source/ system etc.
<b>F/K</b>	Kitchen Fire	Cooking Oil/ Fat etc.

**HOW CAN FIRE BE EXTINGUISHED?**

If any of one component of the fire triangle is removed or stopped supplying, fire can be extinguished.



**WHAT IS THE EXTINGUISHER?**

It is media in liquid, gas or solid form filled with compression in the container usually operated/ used in the event of fire to extinguish/ stop spreading.

**WHAT ARE THE MEDIA USED TO EXTINGUISHER?**

Media	How it helps
Water	Most widely used and best extinguisher media. It absorbs heat.
Foam	Chemicals generate foam and reduce contact between fuel and atmospheric air.
CO2	Carbon Dioxide generates oxygen deficiency in air that helps to cut down fires.
DCP	Dry Chemical Power (DCP) generates a layer above the fuel and hence reduces contact between fuel and air.
Wet Chemicals	Special mixture of chemicals (liquid)

**WHICH EXTINGUISHER MEDIA IS MOST SUITABLE FOR A PARTICULAR TYPE OF FIRE?**

OK=Suitable, X= Not recommended

Media/ Fire	A (Solid Fuel)	B (Liquid Fuel)	C (Gas Fuel)	E (Electrical)	F (Kitchen)
<b>Water</b>	OK	X	X	X	X
<b>Foam</b>	OK	OK	X	X	X
<b>CO2</b>	X	OK	X	OK	X
<b>DCP</b>	OK	OK	OK	OK	X
<b>Wet Chemicals</b>	OK	X	X	X	OK

Never use water on electrical fire or kitchen fire. It may lead to accidents and sometimes fatal.

**WHAT IS THE CAPACITY OF FIRE EXTINGUISHERS AVAILABLE?**

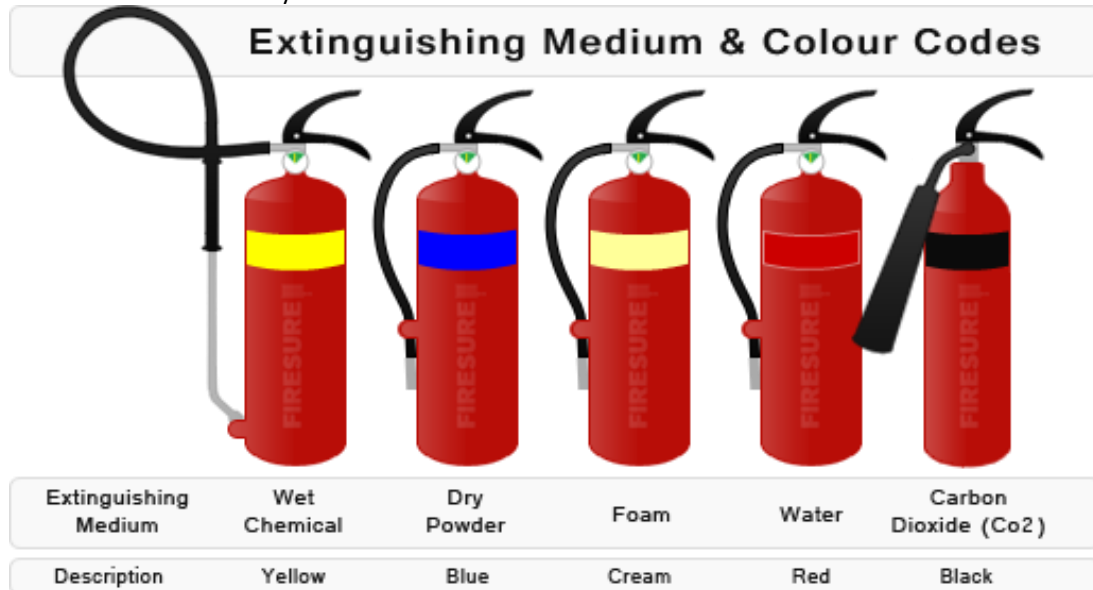
Portable Size (1 Kg to 10 Kg)

Trolley Mounted (above 15 Kgs)

**ALL EXTINGUISHERS LOOK LIKE SAME. HOW TO IDENTIFY THE TYPE OF EXTINGUISHER?**

Each extinguisher is red in colour.

The name of media/ content (i.e. CO2, DCP, Foam etc.) is written on the body of each extinguisher in a specified colour code. Hence it can be easily identified.



**HOW TO OPERATE FIRE EXTINGUISHER?**

Shack extinguisher 3 times before operation. Remember **PASS**

**P**=Pull safety pin,

**A**=Aim nozzle to the base of the fire,

**S**=Squeeze the lever/ handle slowly down,

**S**=Sweep side to side

**WHAT ARE THE LEGAL OBLIGATIONS PERTAINING TO FIRE EXTINGUISHERS?**

- It should be internally inspected on a monthly basis to ensure ready to use and available at the identified point.
- It should be externally inspected on a quarterly basis (service and maintenance) to ensure ready to use.
- It should be refilled/ operated in the annual cycle for performance tests.
- It should be hydro tested once in 3/5 years.



Type of Extinguisher	Frequency of Hydro Test
Water/ Foam/ Dry Chemical Powder (BC/ABC)	3 years
Gas (CO2)	5 years

**IS THERE ANY INDIAN STANDARD EXISTS RELEVANT TO INSPECTION & MAINTENANCE?**

IS 2190:2010 = Selection, Installation and Maintenance of fire extinguishers

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