



Fire Extinguisher

Technical Data

How a fire extinguisher works

Fire is a very rapid chemical reaction between oxygen and a combustible material, which results in the release of heat, light, flames, and smoke.

For fire to exist, the following four elements must be present at the same time:

Enough **oxygen** to sustain combustion,
Enough **heat** to raise the material to its ignition temperature,
Some sort of **fuel** or combustible material, and
The chemical reaction that is fire.



Portable fire extinguishers apply an extinguishing agent that will either cool burning fuel, displace or remove oxygen, or stop the chemical reaction so a fire cannot continue to burn. When the handle of an extinguisher is compressed, it opens an inner canister of high-pressure gas that forces the extinguishing agent from the main cylinder through a siphon tube and out the nozzle. A fire extinguisher works much like a can of hair spray.

Fireguard produces various types of Fire Extinguishers such as Powder, Co2, Water & Foam according to the latest EN standards

Dry chemical extinguishers put out fires by coating the fuel with a thin layer of fire retardant powder, separating the fuel from the oxygen. The powder also works to interrupt the chemical reaction, which makes these extinguishers extremely effective.

Dry chemical extinguishers are usually rated for class B and C fires and may be marked multiple purpose for use in A, B, and C fires. They contain an extinguishing agent and use a compressed, non-flammable gas as a propellant.

ABC fire extinguishers are red in color, and range in size from 1kg to 12kg.

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Model	FGP1	FGP2	FGP6	FGP9
Capacity	1kg	2kg	6kg	9kg
Fire Rating	8A 34B	13A 70B	34A 183B	55A 233B
Test Pressure (Bar)	27	27	27	27
Working Pressure (Bar)	14	14	14	14
Temp Range	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
Discharge Time (Sec)	6	9	15	22
Total Weight (kg)	2.2	4.0	9.8	18
Height (mm)	270	317	442	581
Cylinder Dia (mm)	85	110	162	184
Extinguishing Agent	ABC Powder 70%	ABC Powder 70%	ABC Powder 70%	ABC Powder 70%
Packing Dimensions(mm)	130x88x350	135x115x390	175x175x545	200x200x705

Model	FGP1A	FGP2A	FGP6A	FGP9A
Capacity	1kg	2kg	6kg	9kg
Fire Rating	5A 34B	13A 70B	27A 144B	34A 233B
Test Pressure (Bar)	27	27	27	27
Working Pressure (Bar)	14	14	14	14
Temp Range	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C	-30°C to +60°C
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Fireguard dry powder fire extinguishers are a highly versatile Class A, B & C fire-fighting suitable for most risks. In addition to dealing with electrical hazards, flammable liquids and gases, powder is also effective for vehicle fires. All Extinguishers are tested and certified to EN3 standards.

Features

- High-grade brass head assembly ensures reliability and efficiency
- Working pressure 14 bar for maximum fire fighting performance gives greater application
- Long drawn high grade steel body shell for optimum strength
- 23mm diaphragm pressure gauge provides a very accurate indication of extinguisher's pressure status
- Polyester external coating adds extra protection to withstand extreme temperatures
- Simple seize and squeeze method of operation combined with controllable discharge for maximum fire-fighting performance
- Non-damaging plastic base



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Applications: Public hallways, laboratories, mechanical rooms, break rooms, chemical storage areas, offices, commercial vehicles, and other areas with flammable liquids.



Wood, Paper, Textiles, Fabric



Butane, Methane, Propane



Petrol, Diesel, Oils



Computers, Switchgear, Fax

Installation

To prevent fire extinguishers from being moved or damaged, they should be mounted on brackets or in wall cabinets with the carrying handle placed 3-1/2 to 5 feet above the floor. Larger fire extinguishers need to be mounted at lower heights with the carrying handle about 3 feet from the floor.

Before installing any portable fire extinguisher, check the label to be sure it is approved by a nationally recognized testing laboratory

Care and maintenance

Regular maintenance and inspections of your portable fire extinguishers will provide assurance that they will operate effectively and safely if they are needed.

Inspect all extinguishers at least once a month. Use the following checklist as a guide.

1. Is each extinguisher in its designated place, clearly visible, and not blocked by equipment, coats or other objects that could interfere with access during an emergency?
 2. Is the nameplate with operating instructions legible and facing outward?
 3. Is the pressure gauge showing that the extinguisher is fully charged (the needle should be in the green zone)?
 4. Is the pin and tamper seal intact?
 5. Is the extinguisher in good condition and showing no signs of physical damage, corrosion, or leakage?
 6. Have all dry powder extinguishers been gently rocked top to bottom to make sure the powder is not packing?