

HOW DOES ABC FIRE EXTINGUISHER WORKS

An ABC powder fire extinguisher is a versatile and essential firefighting tool designed to tackle a wide range of fire types, including Class A (solid combustibles like wood, paper, and textiles), Class B (flammable liquids such as oil, gasoline, and solvents), and Class C (flammable gases and electrical fires). It operates by discharging a fine, dry chemical powder—primarily monoammonium phosphate—stored under pressure within the extinguisher. Upon activation, the powder is propelled by compressed gas, typically nitrogen, and directed through a nozzle or hose to the fire.

For Class A fires, the powder works by forming a coating over the burning material, cutting off the oxygen supply, and cooling the surface to prevent re-ignition. In the case of Class B fires, it disrupts the chemical chain reaction of combustion, effectively smothering the flames and preventing the spread of flammable vapors. When used on Class C fires involving electrical equipment or gases, the non-conductive properties of the powder allow for safe suppression of flames without the risk of electric shock.



Fire Class



Fire Class



Electrical

PERFORMANCE DATA

Type	MFZ/ABC 1
Fire Rating	1A21BC
Out-diameter	90 mm
Height	238 mm
Powder Weight	1 ± 5%kg
Working Pressure	14 Bar
Test Pressure	27 Bar
Range of Throw	≥ 3m
Discharge Time	≥ 8s
Working Temperature Range	-20°C ~ 55°C