



IS4308:2019



CM/L-7200176212

Multipurpose ABC Dry Chemical Powder (MAP-50% & MAP-90%) (Mono-ammonium Phosphate)

USAFE ABC powder is a general purpose dry chemical powder with a good efficiency and performance in fires of class A, B, C and E (up to 1,000 volts). USAFE ABC powder is a mixture of highly efficient mono-ammonium phosphate and ammonium sulphate ground to selected particle sizes and made resistant to influences of climatic extremes by means of flow promoting and moisture repellent additives. ABC agent is yellow in color to differentiate it from the other dry chemical agents

Extinguishing mechanism

In addition to the particle surface extinguishing effect of a Class B powder, Class ABCE powders have low melting/decomposition points in the order of 150°C to 180°C, and when these powders are applied to hot and smoldering surfaces, the particles fuse and swell to form a barrier which excludes oxygen and thereby completes the extinguishing process and prevents re-ignition.

Application

ABC Multipurpose Dry Chemical suppressing agent may be used to combat fires in ordinary combustible materials such as wood, cloth, paper, rubber, and many plastics (Class A) as well as fires in flammable liquids, gases and greases (Class B) and fires involving energized electrical equipment (Class C). ABC agent is of particular value on combination fires (Class A and B together),

Performance

Mono-ammonium phosphate based suppressants are unique among dry chemicals because of the "A" rating. ABC Dry Chemical is at least 4 to 5 times as effective as an equal weight of water on Class A fires. Various extinguishers will operate at temperatures as low as -65 °F and as high as 120 °F (-54 °C and 49 °C).



Never mix ABC Dry Chemical agent with bicarbonate based dry chemicals. A chemical reaction that is harmful to the extinguisher will

STORAGE AND SHELF LIFE

ABC- DCP has been formulated by siliconised ingredients for free flowing with no loss of properties during a very long storage life. A storage life in excess of 5 years is expected if stored in original container in a dry atmosphere of less than 75% relative humidity and temperature preferably within 50 C.

PROPERTIES	VALUES
Appearance	Yellow colored free flowing power
Apparent Density	0.75 - 1.10 gm./cc
Water Repellency	< 1.5 %
Moisture Content	< 0.25 %
Flowability	> 50 gm./sec.
Particle Size Distribution	Range (% Retained)
	40 Mesh / 0.425 mm 0
	100 Mesh / 0.150 mm 2 - 15
	200 Mesh / 0.075 mm 18 - 28
	325 Mesh / 0.425 mm 18 - 32
	Bottom pan 25 - 62

STANDARD PACKING

Standard packing are in 5 kgs./10 kgs./25 kgs./50 kgs. (net wt) hermetically sealed polyethylene bags. For safe transportation these bags may be packed in mild Steel Drums / High Density Polythene Drums of suitable sizes if required by Customer.

FIRE FIGHTING EQUIPMENT



Manufactured by

UNITED FIRE & SAFETY SERVICES

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