

# FLAMMEX



# Firechem Force



## PRODUCT DESCRIPTION

FireChem FORCE is a dry chemical powder based on reaction of Potassium Bi-Carbonate Urea complex and has achieved the lowest application density in the whole world (0.40Kg/m<sup>2</sup>)

### EXTINGUISHING MECHANISM

Fire incident datas indicate, small fires turn into towering infernos within a very short period of time due to high rate of free radical generation. Fire extinguishing efficiency is dependent on the rate of removal of these free radicals, which is directly proportional to the surface area of contact i.e. larger the surface area of powder; faster is the extinguishment.

FireChem Force possesses the unique decrepitation property, where powder particles break down into large number of minute particles in the flame zone, thereby the surface of powder in the combustion zone, increase manifold. Large surface area and high rate of removal of free radicals, gives FireChem FORCE a miraculous power for flame knock-down which cannot be matched by other conventional powders based on SBC (Sodium Bicarbonate) or PBC (Potassium Bicarbonate) or MAP (Monoammonium Phosphate).

## SPECIFICATIONS

PROPERTIES	TYPICAL VALUES
APPEARANCE	OFF WHITE, FREE FLOWING POWDER
APPARENT DENSITY	0.5 - 0.6 GM/CM <sup>3</sup>
AVERAGE PARTICLE SIZE	55 - 65 MICRONS
HYGROSCOPICITY	2% MAX
WATER REPELLENCY	1.5% MAX
MOISTURE CONTENT	LESS THEN 0.25% + 60°C
TEMPERATURE STABILITY	
CORROSION & ABRASION	NON CORROSIVE OR ABRASIVE

## STORAGE AND SHELF LIFE

Rigid quality control ensures FireChem force withstands extreme climatic conditions. Powder remains free flowing with no loss of properties throughout the shelf life. The shelf life of 5 years can be expected if stored properly in its original packing of plastic drums. It can be stored up to 60° C.

## AREAS OF APPLICATION

- Portable fire extinguisher
- Wheeled units
- Fire trucks
- Fixed installations
- Powder cannons