

CODE

COMBINED ON DEMAND EQUIPMENT

MOBILE MULTI-CHEMICAL SYSTEM

DESCRIPTION

PHOS-CHEK® CODE is the first system of its kind, providing the user with on-demand, multi-chemical capability. Firefighters can now select long-term fire retardant, Class A foam, Class B foam or gel, at the flick of a switch, with minimal lag time or contamination.

The modular “plug-and-play” PC CODE has been specially designed for use in both fire suppression and fire prevention applications for a wide range of end-use customers; including Wildland, Municipal and Industrial.

CODE allows the user to deploy most types of PHOS-CHEK Fire Retardant, Foam or Gel Products “on demand” simply, easily and accurately. With the flexibility of a CODE there is no need to batch mix one product at a time; each product is metered at a specific optimum mixed ratio.

Today's firefighter encounters complex situations that call for a variety of tools. No longer do you need to simply use what you have. A firefighter can move from structure protection to attacking hot-spots to building fire line instantly.

The CODE system can be custom fit with a variety of tank sizes to suit your particular needs and application.

APPLICATIONS

CODE is the ideal mobile platform for ground application of multi-chemical fire chemicals. Advantages include:

- Uniform coverage ensures maximum effectiveness.
- Select fire chemicals can be applied hours, days, even weeks in advance.
- Operation 24 hours per day, 7 days per week including night operations.
- Mobility of platform allows use when airtankers are not available due to smoke, winds, visibility or in urban interface areas.
- Pinpoint accuracy for protection of sensitive areas.

PRODUCTS

CODE is a highly versatile, multifunction support platform designed to dispense a combination of all or some of the following fire chemicals.



FIRE RETARDANT

Long-term retardant (LTR) is the ideal tool for slowing or stopping the spread of wildland fires. PHOS-CHEK long-term retardants chemically alter wildland fuels to render them non-flammable. Ground applied, all PHOS-CHEK retardants are fully qualified by the USDA Forest service. They are the safest, most effective, and most environmentally friendly products available. Long-term retardant is offered in red iron oxide, fugitive (disappearing) color, and uncolored.

- PHOS-CHEK LC95W Uncolored LC for areas where retardant does not need to be visible.
- PHOS-CHEK LC95A-Fx Fugitive Colored LC when firefighters need to see where the retardant has been applied. Color will disappear within several days/weeks.

WATER ENHANCING GEL

PHOS-CHEK INSUL-8® is a water enhancing gel specially designed for municipal, industrial and wildland fire departments for application from ground equipment. Because of its enhanced coverage and unparalleled adherence capability, INSUL-8 offers superior protection for all types of structures. Far superior to other gels on the market, INSUL-8 can coat most vertical surfaces, including glass, with up to three inches of gel with no slumping. This enables firefighters to easily and quickly protect buildings, tanks and other structures from flame and/or heat impingement, without tying up valuable resources to continuously spray water.

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CLASS A FOAM

PHOS-CHEK WD881 Class A Foam concentrate is specially formulated to make water more effective for firefighting. The unique combination of surfactants in WD881 significantly reduces water's surface tension and, when mixed with air, creates a superior foam blanket that surrounds fuels with a thick layer of water. This creates a barrier between the fuel and the fire, knocking down the fire faster than water alone, and allowing firefighters to see the areas of application. Making the water more effective reduces the amount of water needed to extinguish the fire, reduces water damage and increases firefighter safety through quicker knockdown and reduced mop-up/overhaul requirements.

WD881 is highly effective for fighting Class A fires when mixed with water at use rates of 0.1% to 1.0%. It has proven effectiveness in many applications, such as Compressed Air Foam Systems (CAFS), structural firefighting, and forest fire suppression, including prescribed burning and industrial Class A fires. PHOS-CHEK WD881 Class A foam concentrate does not contain any PFAS chemicals including, but not limited to, PFOS or POFA.

CLASS B FOAM

Flammable liquid fires require specialized foams that are designed to both extinguish a fire and prevent reignition or burnback. PHOS-CHEK Class B, C6 based Aqueous Film Forming Foam (AFFF) and Alcohol-Resistant (AR-AFFF) concentrates form a film between the fuel and the air, sealing the surface and preventing the escape and ignition of flammable vapors. AR-AFFF is specially designed to prevent polar solvents from destroying the foam blanket. AFFF and AR-AFFF come in a variety of formulations with varying mix rates (1%, 3% or 6%), viscosities, and freeze points. In addition to AFFF and AR-AFFF, Perimeter Solutions offers fluorine-free foams formulated to fight both hydrocarbon and polar solvent fires.

TO LEARN MORE

To learn more about how CODE on-demand multi-chemical system platforms can meet your toughest wildland, municipal and industrial fire needs contact your local authorized PHOS-CHEK distributor or factory representative for details <https://phoschek.com/contact/>



RECOMMENDED RETARDANT COVERAGE LEVELS

NFDRS FM	BEHAVIOR FM	COVERAGE LEVEL	FUEL DESCRIPTION
A, L, S	1	1	Annual & Perennial Western Grasses, Tundra
C	2	2	Conifer w/Grass
H, R	8	2	Shortneedle Closed Conifer, Spring Hardwood
E, P, U	9	2	Longneedle Conifer, Fall Hardwood
T	2	3	Sagebrush with Grass
N	3	3	Sawgrass
F	5	3	Intermediate Brush (Green)
K	11	3	Light Slash
G	10	4	Shortneedle Conifer (heavy, dead litter)
O	4	4	Southern Rough
F, Q	6	4	Intermediate Brush (cured; Alaska Black Spruce)
B, O	4	> 6	California Mixed Chaparral; High Pocosin
J	12	> 6	Medium and Heavy Slash
I	13	> 6	Medium and Heavy Slash

Adjust Coverage Level based on fire behavior, i.e., for smoldering fires decrease by 1.

YIELD

PRODUCT	PACKAGE	MIX WITH	YIELDS MIXED RETARDANT
LC95W or LC95A-F	5 gal. pails	27.5 gal. of water	32.5 gal.
	55 gal. drum	302.5 gal. of water	357.5 gal.
	260 gal. totes	1430 gal. of water	1690 gal.

FOAM AND GEL YIELD

500 gallons water 1% mix ratio = 5 gallons concentrate.
At 1% mix ratio, 35 gallon concentrate tank = 7 loads of water



RELATIVE EFFECTIVENESS OF COMMON FIRE CHEMICALS

APPLICATION	LONG-TERM RETARDANT	GEL	CLASS A FOAM	WATER
Indirect Attack	✓✓✓✓	✓✓	✓	
Direct/Parallel Attack	✓✓✓✓	✓✓✓	✓✓	✓
Interior Structure Attack		✓✓	✓✓✓✓	✓
Structure Protection-Indirect Application	✓✓✓✓	✓✓✓	✓✓	✓
Structure Protection-Direct Application		✓✓✓✓	✓✓✓	✓
Mop Up	✓✓	✓✓	✓✓✓✓	✓
Prescribed Burn Control	✓✓✓✓	✓✓✓	✓✓	✓
Burnout Operations	✓✓✓✓	✓✓✓	✓✓	✓

✓✓✓✓ = Superior Effectiveness
✓✓✓ = Excellent Effectiveness

✓✓ = Good Effectiveness
✓ = Baseline Effectiveness

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