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Protein Based Foam
6% FFFP
Part No. C6FFFP

DESCRIPTION

Chemguard 6% FFFP Foam Concentrate is manufactured by combining the very latest Fluorocarbon Surface Active Agents with a protein based foam concentrate. When mixed with water in the correct proportion, a very fluid and stable foam is generated. This foam blanket gives rapid knock down of hydrocarbon type fires due to the film forming characteristics of the draining foam solution. The presence of the protein in the foam makes a slow draining foam with excellent burn back resistance.

Chemguard 6% FFFP is intended for use at a pro- portioning rate of 6% (6 parts FFFP to 94 parts water) on class B hydrocarbon type fuels such as gasoline, kerosene, diesel, etc. Chemguard 6% FFFP is not intended for use on fuels that are polar solvent/water miscible, such as alcohols, ketones, esters, etc.

FEATURES

- U. L. Listed, Foam Liquid Concentrates
- Meets fire performance standards for AFFF and burn back performance for Fluoroprotein foam concentrate
- Suitable for use with either fresh or salt water
- Suitable for use with either air-aspirating foam or standard water fog nozzles
- Suitable for use in fixed foam protection systems, including sub-surface injection systems
- Suitable for use with plastic, fiberglass, or mild steel containers
- Suitable for use with all siliconized dry chemical extinguishing agents
- Meets United Kingdom Ministry of Defense Standard 42-24 for AFFF and fire test requirements of DEF 42-22 for Fluoroprotein foam concentrates

PROPORTIONING

Chemguard 6% FFFP concentrate is suitable for use with the following types of proportioning equipment.

- Fixed or portable in-line eductors
- In-line balanced pressure and pump pres- sure proportioning skid
- Bladder tank balanced pressure proportion- ing systems
- Around the pump proportioners
- Handline, air-aspirating nozzles with fixed eductor pickup tube

APPLICATIONS

Chemguard 6% FFFP will provide quality protec- tion for a wide range of hazardous areas such as:

- Crash Fire Rescue
- Storage tanks non-polar solvent type fuels only)
- Truck/Rail loading or unloading facilities
- Processing/Storage facilities

- Docks/Marine tankers
- Flammable liquid containment areas
- Mobile equipment

FOAMING PROPERTIES

The foaming properties/expansion will vary depending on the type of discharge device, inlet pressure and flow rate. When tested to U.L. specifications and used with an air-aspirating nozzle, the expansion ratio should be at least 7 to 1 or higher with a 25% drain time of at least 5 minutes. When used through a standard water fog nozzle an expansion ratio of between 2 - 4 to 1 should be obtained with a 25% drain time of at least 2 minutes.

DISCHARGE DEVICES

Chemguard 6% FFFP is suitable for use with the following discharge devices:

- Foam chambers
- Air-aspirating and non air-aspirating sprinkler heads and spray nozzles
- Standard water fog nozzles
- Air-aspirating hand line and monitor nozzles
- Foam makers for use with Floating Roof storage tank systems or Dike/Bund protection systems
- High Back Pressure Foam Makers for subsurface base injection into storage tanks (regular hydrocarbon fuels only)

TYPICAL PROPERTIES AT 68ºF (20ºC)

Appearance	Dark Brown Liquid
Specific Gravity	1.100
pH	7.5
Viscosity	5 cps
Freezing point	-5ºF
Pour point	2ºF
Undissolved Solved	less than 0.1% v/v

ENVIRONMENTAL IMPACT

Chemguard 6% FFFP is biodegradable, low in toxicity and can be treated in sewage treatment plants. This product does not contain any "heavy metal" salts such as zinc chloride which are objectionable to environmental authorities.

STORAGE/SHELF LIFE

If kept in the original manufacturer's supplied container(s) and stored within the temperature range of 20ºF - 104ºF (-6ºC - 40ºC) a shelf life in excess of 10 years can be expected. Chemguard 6% FFFP will not sludge out during storage even under short term elevated storage temperatures.

ORDERING INFORMATION

Chemguard 6% FFFP is available in 24.6 liter plastic pails or 208 liter plastic drums.

Part No. 6% FFFPP	24.6 Liter Pail (6.5 U.S. Gal.)
Part No. C6FFFPD	208 Liter Drum (55 U.S. Gal.)