CHEMGUARD INC.
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# Protein Based Foam
## 6% Fluoroprotein
## Part No. C6FP

### DESCRIPTION

Chemguard 6% Fluoroprotein is a hydrolyzed protein based foam concentrate with fluorinated surfactants added. This foam concentrate makes a very fluid and stable foam which will cover a burning hydrocarbon fuel source very rapidly. The water soluble fluorosurfactant gives the foam the ability to reject or repel hydrocarbons which decreases the amount of hydrocarbons being absorbed into the foam during fire fighting operations.

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

### FEATURES

- U. L. Listed, Foam Liquid Concentrates
- Suitable for use with either fresh or salt water
- Excellent wetting characteristics when used in combating Class A fuel fires
- Suitable for use in fixed foam protection systems including sub-surface into hydro-carbon fuels
- Suitable for use with all siliconized dry chemical extinguishing agents
- Suitable for use with deluge or closed head air- aspirating foam water sprinkler systems
- Suitable for use with plastic, fiberglass, or mild steel containers
- Recommended for use with air-aspirating foam nozzles
- Meets performance requirements of the United Kingdom Ministry of Defense Standard 42-22 for Fluoroprotein foam concentrates

### PROPORTIONING

Chemguard 6% Fluoroprotein is designed 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% Fluoroprotein will provide excellent protection for a wide range of hazardous areas such as:

- Storage tanks
- Truck/Rail loading or unloading facilities
- Processing/Storage facilities
- Docks/Marine tankers

- Flammable liquid containment areas
- Mobile equipment

## PERFORMANCE

Chemguard 6% Fluoroprotein has been tested to ensure that it will meet the fire performance requirements of:

UK. Ministry of Defense Standard 42-22

U.L. 162

## FOAMING PROPERTIES

The foaming properties/expansion will vary depending on the type of discharge equipment, inlet pressure and flow rate. When tested to DEF 42- 22, the expansion should be at least 7 to 1 or higher with a 25% drain time of not less than 6.5 minutes.

## DISCHARGE DEVICES

It is recommended that Chemguard 6% Fluoroprotein be used only through air-aspirating discharge devices such as:

- Foam Chambers
- High back pressure foam maker (sub-surface)
- Air-aspirating foam nozzles
- Air-aspirating sprinkler heads and spray nozzles

These types of discharge devices will give optimum performance, expansion and drainage times.

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|---|---|
| Appearance | Dark Brown Liquid |
| Specific Gravity | 1.12 |
| pH | 6.75 |
| Viscosity | 10 cps at 20ºC |
| Freezing point | 7ºF |
| Pour point | 9ºF |
| Suspended sediment | less than 0.25% v/v |

## ENVIRONMENTAL IMPACT

Chemguard 6% Fluoroprotein is biodegradable, low in toxicity and can be treated in sewage treatment plants.

## STORAGE/SHELF LIFE

If kept in the original manufacturer's supplied container(s) and stored within the temperature range of 20ºF - 120ºF (-7ºC - 49ºC) a shelf life of at least 7 - 10 years can be expected. If the product is frozen during storage or transportation, thawing will render the product completely usable.

## ORDERING INFORMATION

Chemguard 6% Fluoroprotein is available in 19 liter plastic pails or 208 liter plastic drums.

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| Part No. C6FP | 24.6 Liter Pail (6.5 U.S. Gal.) |
| Part No. C6FPD | 208 Liter Drum (55 U.S. Gal.) |

## SHIPPING WEIGHT

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|---|---|
| 24.6 Liter Pail | 67 lbs. |
| 208 Liter Drum | 560 lbs. |

## TYPICAL PROPERTIES AT 77ºF (25ºC)