3% & 6% AFFF Standard Grade Foam Concentrate SG3HE & SG6HE

Chemguard 3% and 6% Standard Grade AFFF are synthetic aqueous film forming foam concentrates consisting of fluorocarbon surfactants, solvents and foam stabilizers. It is manufactured under strict quality control standards to ensure a reliable and dependable product. When mixed with water in the correct proportion, the mixture makes very fluid foam, which will flow rapidly over the fuel's surface. As the expanded foam mass begins draining, an aqueous film is formed that helps prevent the further release of any fuel vapors. The 3% SG AFFF or 6% SG-AFFF is recommended for use where fast knockdown, especially of a spill fire, is the primary requirement.

Chemguard 3% SG-AFFF is intended for use at a proportioning rate of 3% (3 parts SG-AFFF to 97 parts water) on Class B hydrocarbon based flammable or combustible liquids such as gasoline, diesel, kerosene, jet fuel, etc. Chemguard 3% SG-AFFF is NOT intended for use on any fuels, which are polar solvent/water miscible such as alcohols, ketones, esters, etc.

Chemguard 6% SG-AFFF is intended for use at a proportioning rate of 6% (6 parts SG-AFFF to 94 parts water) on Class B hydrocarbon based flammable or combustible liquids such as, gasoline, diesel, kerosene, jet fuel, etc. Chemguard 6% SG AFFF is NOT intended for use on any fuels, which are polar solvent/water miscible such as alcohols, ketones, esters, etc.

FEATURES

- Suitable for use with either fresh or salt water
- Excellent wetting characteristics when used in combating Class “A” fuel fires
- If inadvertently frozen, thawing will render product completely serviceable again
- Suitable for use with carbon steel, fiberglass, polyethylene or stainless steel. Chemguard 3% SG-AFFF and 6% SG-AFFF concentrates are not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with siliconized dry chemical extinguishing agents
- Recommended application rate on hydrocarbon fuel spills is .10 gpm. /sq. ft.
- Compatible with other 3% AFFF or 6% AFFF concentrates of equal quality

PROPORTIONING

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

DISCHARGE DEVICES

- Foam Chambers
- Air-aspirating and non air-aspirating sprinkler heads or spray nozzles
- Standard water fog nozzles for handlines and monitors
- Air-aspirating foam nozzles
- Foam makers for use with either Floating Roof storage tanks or Dike/Bund protection systems
- High back pressure foam makers for sub-surface base injection system (hydrocarbon type fuels only)

APPLICATIONS

- Crash Fire Rescue
- Storage Tanks(non-polar solvent fuels only)
- Truck/Rail Loading or Unloading Facilities
- Processing/Storage Facilities
- Docks/Marine Tankers

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DATA SHEET #D10D03021
REVISION: 09/2005

- Flammable Liquid Containment Areas
- Mobile Equipment

PERFORMANCE

To ensure the fire fighting performance required in today's market, Chemguard tests the 3% SG-AFFF and 6% SG-AFFF concentrates on a modified 50 square foot heptane fire at an application rate of 0.08 gpm/square foot.

FOAMING PROPERTIES

When 3% SG-AFFF or 6% SG-AFFF is mixed with water at the correct ratio, air-aspirating type discharge devices typically generate expansion ratios between 5-10 to 1. Non air-aspirating type devices will typically generate expansion ratios of between 2-4 to 1. Expansion ratios are dictated by the type of discharge device, flow rate and discharge pressure.

TYPICAL PROPERTIES AT 77ºF (25ºC)

	3% SG-AFFF	6%-SG AFFF
Appearance	Clear	Slightly Yellow
Specific Gravity	1.010	1.005 g/ml
pH	7.7	7.7
Viscosity	2 cps	2 cps

ENVIRONMENTAL IMPACT

Chemguard 3% SG-AFFF and 6% SG-AFFF concentrates are biodegradable, low in toxicity and can be treated in sewage treatment plants. Please refer to Chemguard Technical Bulletin regarding foam products and the environment.

STORAGE

If kept in the original unopened and airtight Chemguard supplied container and stored within the temperature range of between 35ºF-120ºF (2ºC - 49ºC), a shelf life of between 20-25 years can be expected. When stored in other than the original Chemguard supplied container, please check with Chemguard or an authorized distributor for storage guidelines.

ORDERING INFORMATION & WEIGHTS

3% Standard Grade

Part No:	Container	Weight
SG3HEP	5-Gallon Pail / 19 Liters	45 lbs.
SG3HED	55-Gallon Drum / 208 Liters	495 lbs.

6% Standard Grade

SG6HEP	5-Gallon Pail / 19 Liters	45 lbs.
SG6HED	55-Gallon Drum / 208 Liters	495 lbs.

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