



TECHNICAL DATA

ULTRAGUARD C334-LV 3% AR-AFFF FOAM CONCENTRATE

The Viking Corporation, 210 N Industrial Park Drive, Hastings MI 49058
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 Visit the Viking website for the latest edition of this technical data page.

1. DESCRIPTION

Chemguard Ultraguard C334-LV 3% AR-AFFF is a specially formulated, aqueous film forming free flowing viscous foam concentrates. It forms a vapor suppressing aqueous film on hydrocarbon type fuels or a polymeric membrane on polar solvent/water miscible type fuels. Ultraguard C334-LV is intended for use at a proportioning rate of 3% (3 parts C334-LV concentrate to 97 parts water) on hydrocarbon fuels such as gasoline, kerosene, diesel, etc., and on polar solvent/water miscible fuels such as alcohols, ketones, esters, etc.

Features

- Type Approval: GB15308-94
- Used at a 3% proportioning rate on both hydrocarbon and polar solvent fuels
- Suitable for use with either fresh or salt water
- Excellent wetting characteristics when used in combating Class "A" fuel fires
- Suitable for use with deluge and closed head foam water sprinkler systems
- Suitable for use with fiberglass, polyethylene or stainless steel. Ultraguard C334-LV is not compatible with galvanized pipe or fittings in an undiluted form.
- Suitable for use with dry chemical extinguishing agents.
- Suitable for use with both air-aspirating foam and standard water fog nozzles



2. LISTINGS AND APPROVALS

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3. TECHNICAL DATA

A. Typical Properties

Density	1.03 ± 0.02 g/ml
pH	7.0 — 8.5
Refractive Index	1.3600 Minimum
Viscosity	1000 ± 300 cPs*
Spreading Coefficient	3 dynes/cm minimum at 3% dilution
Pour Point	10 °F (-12 °C)
Freeze Point	7 °F (-14 °C)
Appearance	Yellow Gelled Liquid
* Brookfield Viscometer Spindle #4, speed 60 rpm	

B. Ordering Information

5-Gallon Pails (19 liters)	45 lb. (20.4 kg)	Part No. F20722/5
55-Gallon Drums (208 liters)	495 lb. (224.5 kg)	Part No. F20722/55
265-Gallon Tote (1003 liters)	2463 lb. (1117 kg)	Part No. F20722/265

4. STORAGE, ENVIRONMENTAL, PROPORTIONING AND DISCHARGE DEVICES

A. Storage And Shelf Life

If kept in the original unopened and airtight Chemguard supplied container and stored within the temperature range of 35 °F to 120 °F (2 °C to 49 °C), a shelf life of more than 10 years can be expected. If the AR-AFFF is to be stored in an atmospheric type foam concentrate storage tank whether on mobile apparatus or stationary, limit the airspace above the surface of the concentrate whenever possible and place a thin layer of quality mineral oil on the surface of the foam concentrate to minimize any effect from evaporation.

The shelf life of any foam concentrate is maximized by proper storage conditions and maintenance. Factors affecting shelf life are wide temperature changes, extreme high or low temperatures, evaporation, dilution, and contamination by foreign materials. Properly stored AR-AFFF foam concentrates have been tested and shown no significant loss of fire fighting performance, even after 10 years. Annual testing of all fire fighting foam is recommended by the National Fire Protection Association (NFPA).



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B. Environmental And Toxicological Information

The environmentally-mindful CHEMGUARD C334-LV 3x3 AR-AFFF Concentrate formulation contains short-chain, C-6 fluorochemicals manufactured using a telomer-based process. The telomer process produces no PFOS, and these C-6 materials do not breakdown to yield PFOA. The fluorochemicals used in the concentrate meet the goals of the U.S. Environmental Protection Agency 2010/15 PFOA Stewardship Program.

C. Proportioning Devices

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

D. Discharge Devices

Ultraguard C334-LV 3x3 AR-AFFF Concentrate may be effectively applied using most conventional foam discharge equipment at the correct dilution with fresh, salt, or hard water. For optimum performance, water hardness should not exceed 500 ppm expressed as calcium and magnesium.

Ultraguard C334-LV 3x3 Concentrate requires low energy to foam and the foam solution may be applied with aspirating and non-aspirating discharge devices. Aspirating discharge devices typically produce expansion ratios from 3.5:1 to 10:1, depending on the type of device and the flow rate. Non-aspirating devices, typically produce expansion ratios from 2:1 to 4:1.

NOTICE

ULTRAGUARD C334-LV can not be used for subsurface injection!!

5. INSPECTIONS, TESTS AND MAINTENANCE

NOTICE

The owner is responsible for maintaining the fire protection system and devices in proper operating condition. For minimum maintenance and inspection requirements, refer to recognized standards such as those produced by NFPA, LPC, and VdS which describe care and maintenance of sprinkler systems. In addition, the "Authority Having Jurisdiction" may have additional maintenance, testing and inspection requirements which must be followed.

⚠ WARNING

Any system maintenance or testing that involves placing a control valve or detection system out of service may eliminate the fire protection capabilities of that system. Prior to proceeding, notify all Authorities Having Jurisdiction. Consideration should be given to employment of a fire patrol in the affected areas.

6. AVAILABILITY

Ultraguard C334-LV is available through a network of domestic and international distributors. See the Viking Corp. web site for closest distributor or contact The Viking Corporation.

7. GUARANTEE

For details of warranty, refer to Viking's current list price schedule or contact Viking directly.