



# ANGUS FIRE



## Alcoseal<sup>®</sup>C6 3-6

Alcohol Resistant Film-Forming Fluoroprotein (AR-FFFP) Foam Concentrate



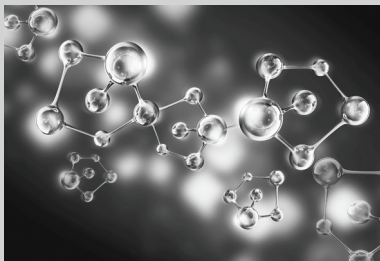
### Integrity

*Doing what's right, rather than what's convenient*

Angus Fire prides itself on the open and honest way in which we conduct our business throughout the world. Our foams are an extension of our ethical beliefs and we pride ourselves in being the responsible foam manufacturer, balancing high performance with minimal environmental impact.

### C6 Technology

Alcoseal<sup>®</sup>C6 3-6 alcohol-resistant film forming fluoroprotein foam (AR-FFFP) is used at 3% concentration to extinguish hydrocarbon fires, and 6% for polar-solvent (water miscible) fires. The C6 Fluorosurfactants have been developed and refined specifically to lower the environmental impact without reducing performance. This new formulation demonstrates Angus Fire's commitment to superior flexibility, firefighting performance, and environmental responsibility. It is suitable for use with foam compatible dry powder extinguishing agents.



- ✔ Suitable for use with fresh or sea water.
- ✔ Used at 3% concentration on hydrocarbons and 6% on polar solvent (water miscible) fires.
- ✔ Compatible with a wide range of proportioning and foam-making devices.
- ✔ Stable and long-lasting foam blanket for excellent burnback resistance and post-fire security.
- ✔ Detergent-free for high resistance to fuel pick-up.
- ✔ Suitable for use with foam compatible dry powder extinguishing agents.
- ✔ Underwriters Laboratories, Inc.
- ✔ Underwriters Laboratories of Canada.

Alcoseal<sup>®</sup>C6 3-6 is a superior quality Alcohol Resistant Film-Forming FluoroProtein (AR-FFFP) fire fighting foam concentrate for extinguishing and securing a broad range of Class B flammable liquid fires.

Alcoseal<sup>®</sup>C6 3-6 unique protein-based formulation contains no harmful synthetic detergent or glycol ether. The protein base provides a tough, cohesive foam blanket with high resistance to heat. Fluorosurfactants combined with the protein base produce a vapor-sealing aqueous film that provides the same fast control and extinguishment as a top quality synthetic AFFF. On polar solvents,

an insoluble polymer membrane is formed which protects the foam blanket from the solvent.

Alcoseal<sup>®</sup>C6 3-6 is the ideal firefighting foam to use in high risk situations where hydrocarbons (such as aviation kerosene, crude oil, gasoline and diesel fuel) and/or polar solvents (such as alcohols, ketones, esters, and ethers) are stored, processed, or transported. Alcoseal<sup>®</sup>C6 3-6 is used extensively by industrial and municipal fire departments.

Alcoseal<sup>®</sup>C6 3-6 is intended for use at 3% on hydrocarbons and at 6% on polar solvents. It is readily proportioned using conventional foam proportioning equipment. Alcoseal<sup>®</sup>C6 3-6 can be used with both air aspirating and non-aspirating devices. Exceptional resistance to fuel contamination makes it ideal for forceful application on hydrocarbon storage tank fires. Alcoseal<sup>®</sup>C6 3-6 can be used with non-aspirating discharge devices such as spray/fog nozzles, monitors and spray/fog sprinklers. Non-aspirated application is not recommended as the primary method of attack for major fires.

### Typical Physical Properties

Appearance.....	Dark Brown liquid
Specific Gravity at 68°F(20°C).....	1.11
pH.....	7.1
Min Usable Temperature.....	35°F(2°C)
Max Usable Temperature.....	120°F(49°C)

# Alcoseal<sup>®C6</sup> 3-6

## Alcohol Resistant Film-Forming Fluoroprotein (AR-FFFP) Foam Concentrate

### Storage and Handling

Alcoseal<sup>®C6</sup> 3-6 is ideally stored in its original shipping container or in tanks or other containers which have been designed for such foam storage. Recommended construction materials are carbon steel, high density cross linked polyethylene, or reinforced fiberglass polyester (isophthalic polyester resin) with a vinyl ester resin internal layer coating (50-100 mils).

Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is with the UL listed temperature range of 35°F to 120°F (2°C to 49°C). When product is stored in atmospheric storage tanks, contents must be covered with 1/4-inch (6.35mm) of Angus Fire Seal Oil to ensure prevention of air coming into contact with the foam concentrate. Use of Seal Oil is only recommended in stationary storage tanks. Refer to Angus Fire product data sheet AFC700 for further information.

Alcoseal<sup>®C6</sup> 3-6 foam concentrate is freeze/thaw stable. Should the product

freeze during shipment or storage, no performance loss is expected upon thawing.

It is recommended that Alcoseal<sup>®C6</sup> 3-6 not be mixed with any other type of foam concentrate in long-term storage. Such mixing could lead to chemical changes in the product and a possible reduction in or loss of its firefighting capability. Most expanded foams are compatible for side-by-side application during an incident.

### Shelf Life, Inspection, and Testing

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 Angus Fire AR-FFFP 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). Angus Fire provides a Technical Service Program to conduct such tests. Refer to Angus Fire

product data sheet AFC400 for further details on Technical Service Program, or contact your Angus representative.

### Environmental and Toxicological Information

Angus Fire Concentrates do not contain PFOS in accordance with USEPA Stewardship Program 2010/15.

Prevent foam concentrate or foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of Alcoseal<sup>®C6</sup> 3-6 concentrate or foam solution should be made in accordance with federal, state, and local regulations.

Alcoseal<sup>®C6</sup> 3-6 has not been tested for acute oral toxicity, primary eye, or primary skin irritation. Repeated skin contact will remove oils from the skin and cause dryness. Alcoseal<sup>®C6</sup> 3-6 is a primary eye irritant, and contact with the eyes should be avoided. Users are advised to wear protective equipment. If Alcoseal<sup>®C6</sup> 3-6 enters the eyes, flush them well with water and seek immediate medical attention. For further details, see the Alcoseal<sup>®C6</sup> 3-6 Safety Data Sheet AMS183.

### ORDERING INFORMATION

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	48.5 lb. (22 kg)	1.13 cu. ft. <sup>3</sup> (0.032 cu. m)	3130-5340-4
55-Gallon Drums (208 liters)	520.3 lb. (236 kg)	11.51 cu. ft. <sup>3</sup> (0.326 cu. m)	3130-5481-4
265-Gallon IBC Reusable Tote Tank (1000 liters)	25571lb. (1160 kg)	51.11 cu. ft. <sup>3</sup> (1.1061 cu. m)	3130-5625-4



**EMERGENCY FOAM SERVICE** Call +1 610-363-1400 – 24 hours a day, every day