



Tridol[®] M^{C6} 3%

Synthetic Aqueous
Film-Forming Foam (AFFF)
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

Tridol[®] M^{C6} 3% is an aqueous film forming foam (AFFF) which is used at 3% concentration to extinguish fires in hydrocarbon fuels. 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. Tridol[®] M^{C6} 3% is suitable for use with most types of proportioning and discharge equipment.



- ✔ Film-forming for fast flame knockdown and extinguishment.
- ✔ Burnback resistance and post-fire security.
- ✔ Suitable For Use With Fresh Or Sea Water.
- ✔ Compatible With Standard Proportioning And Foam Making Devices.
- ✔ Suitable For Use With Foam Compatible Dry Powder Extinguishing Agents.
- ✔ Underwriters Laboratories, Inc.
- ✔ Underwriters Laboratories of Canada.
- ✔ U.S. Military Specification MIL-PRF-24385F(SH) Qualified Products List (QPL).

Tridol[®] M^{C6} 3% is a superior quality synthetic Aqueous Film-Forming Foam (AFFF) concentrate for extinguishing and securing flammable hydrocarbon liquid fires.

Tridol[®] M^{C6} 3% is a unique combination of hydrocarbon and fluorochemical surface active agents. It produces a vapor-sealing aqueous film that spreads rapidly over the fuel surface to provide rapid control and extinguishment.

Applications

Tridol[®] M^{C6} 3% is used at 3% concentration in fire suppression systems and manually to fight fires involving hydrocarbon fuels such as crude oil, gasoline, and fuel oils.

It is not suitable for use on polar solvents or water miscible fuels such as alcohols, ketones, esters, and ethers. Typical installations include foam-water sprinkler systems, aircraft hangars, loading racks, process areas, etc. Tridol[®] M^{C6} 3% is also an excellent agent for use in Aircraft Rescue and Fire Fighting (ARFF) or other manual fire fighting applications where polar solvent fuels are not encountered.

Tridol[®] M^{C6} 3% provides a vapor-suppressing foam blanket on unignited hydrocarbon spills.

Typical Physical Properties

Appearance..... Straw Yellow Color
Specific Gravity at 77°F(25°C)..... 1.04
pH..... 8.0
Viscosity at 77°F(25°C)..... 4 cST
Freezing Point..... 10°F(-12°C)
Min Usable Temperature..... 35°F(2°C)
Max Usable Temperature..... 120°F(49°C)

Equipment

Tridol[®] M^{C6} 3% is intended for use at 3% (3 parts concentrate to 97 parts water). Tridol[®] M^{C6} 3% is readily proportioned using conventional foam proportioning equipment.

Tridol[®] M^{C6} 3% can be used with air aspirating discharge devices and non-aspirating. Devices include low expansion nozzles, monitors, fixed foam discharge devices, as well as water and foam sprinklers.

Tridol® M^{C6} 3%

Synthetic Aqueous Film-Forming Foam (AFFF) Concentrate

Non-aspirated foam is suitable for shallow fuel fires and spill fires. Where a major fuel fire is involved, Angus Fire always recommends the use of aspirated foam where a stable foam blanket is essential.

Compatibility

Tridol® M^{C6} 3% has been tested for compatibility with all 3% AFFF foam concentrates which are qualified to MIL-PRF-24385F(SH), and are suitable for mixing in long term storage. It should not be mixed with other foam concentrates which are not qualified to MIL-PRF-24385F(SH). Such mixing could lead to chemical changes in the product and a possible reduction in or loss of fire fighting capability. Most expanded foams are compatible for side-by-side application during an incident.

Tridol® M^{C6} 3% is suitable for use in combination with foam compatible dry chemical extinguishing agents.

Environment

Angus Fire foam concentrates do not contain PFOS. The C6 surfactants balance high performance and low environmental impact.

Prevent foam concentrate or foam solution from entering ground water, surface water, or storm drains. Discharge and disposal of Tridol® M^{C6} 3% concentrate or foam solution should be made in accordance with federal, state, and local regulations.

Storage

Tridol® M^{C6} 3% 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 stainless steel (Type 304L or 316), 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 within 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.

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 AFFF foam concentrates have been tested and shown no significant loss of firefighting performance, even after 15 years.

Annual testing of all firefighting 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 for further details on Technical Service program.

ORDERING INFORMATION

Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	46 lb. (20.9 kg)	1.13 cu. ft. ³ (0.032 cu. m)	3133-8340-4
55-Gallon Drums (208 liters)	499 lb. (225.8 kg)	11.51 cu. ft. ³ (0.326 cu. m)	3133-8481-4
275-Gallon IBC Reusable Tote Tank (1041 liters)	2520 lb. (1140.4 kg)	51.11 cu. ft. ³ (1.1061 cu. m)	3133-8725-4
330-Gallon IBC Reusable Tote Tank (1249 liters)	3017 lb. (1365.3 kg)	55.8 cu. ft. ³ (1.580 cu. m)	3133-8033-4
Bulk	8.67 lb./gal. (1.04 kg/l)		3133-8001-4



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