



# Avio<sup>F3</sup> Green KHC 6%

Fluorine Free (FF) Foam Concentrate NFC535



- ☑ 100% Biodegradable.

- ☑ Third party certified to meet the requirements of ICAO Level C.
- ☑ Specifically designed for crash truck usage.



Avio<sup>F3</sup> Green KHC 6% is a patent pending combination of surfactants and other ingredients and produces a vapor sealing blanket of foam that rapidly spreads over the surface of the fuel to provide rapid control and extinguishment.

- Unique patent pending formulation only available from National Foam.
- Film-forming to assist with fast knockdown and excellent burnback.
- Newtonian flow characteristics.
- Low viscosity for easy proportioning.
- Fluorine free can be used where traditional fluorinated products cannot be used.

#### **Standards and Approvals**

☑ Certified to meet the requirements of ICAO Level C (MPA Dresden GmbH)

☑ NFPA 403

✓ NFPA 412

☑ NFPA 414

## **Applications**

Avio<sup>F3</sup> Green KHC 6% is used at 6% concentration in high risk situations where hydrocarbon fuels such as Jet-A, Jet-A1 and aviation kerosene are processed, stored or transported. It is not suitable for use on polar solvents or water miscible fuels such as alcohols, ketones, esters and ethers.

Avio<sup>F3</sup> Green KHC 6% is designed to be

used on Aviation Rescue Fire Fighting vehicles (ARFF), Rapid Intervention Vehicles (RIV) and airport crash trucks where fast extinguishment is essential for saving life. Avio<sup>F3</sup> Green KHC 6% provides a vapor supressing foam blanket on Jet-A and Jet-A1 spills.

AvioF3 Green KHC 6% is an excellent alternative to standard Aqueous Film Forming Foam concentrates and is in compliance with the FAA Reauthorization Act of 2018 (Section 332), providing aircraft manufacturers and airports a fluorine-free alternative that meets the requirements of NFPA 403, Standard for Aircraft Rescue and Fire-Fighting Services at Airports. Avio<sup>F3</sup> Green KHC 6% also meets the 8 conditions of Canadian Aviation Regulation (CARs) Section 303.08 exemptions to allow all Canadian airport operators to use performance specifications of the International Civil Aviation Organization (ICAO) International Standards and Recommended Practices. Annex 14 instead of the performance specifications set out in paragraph 323.08(1)(a) of Standard 323 – Aircraft Fire Fighting at Airports and Aerodromes (CAN/ULC-S560 or of CAN/ULC-S563).

#### **Typical Physical Properties**

Appearance	Clear Mobile	e Liquid
Specific Gravity at 6	58°F(20°C)0	.99-1.01
Viscosity @ 68°F(20	°C)20	)-50 cSt
Freezing Point	25	°F(-2°C)
Lowest Use Temper	rature35	5°F(2°C)
Max Continuous		
Storage Tempera	iture120°	°F(49°C)



## Avio<sup>F3</sup> Green KHC 6%

## Fluorine Free (FF) Foam Concentrate

#### **Approvals and Listings**

Avio<sup>F3</sup> Green KHC 6% meets and exceeds the requirements of ICAO Level C and is third-party certified to this performance level.

#### **Equipment**

Avio<sup>F3</sup> Green KHC 6% is intended for use at 6% (6 parts concentrate to 94 parts water). Avio<sup>F3</sup> Green KHC 6% is readily proportioned using conventional foam proportioning equipment.

Avio<sup>F3</sup> Green KHC 6% should be used with aspirated devices. Where a fire or shallow spill is involved with fire, National Foam always recommends the use of aspirated foam where a stable foam blanket is essential

### Compatibility

Avio<sup>F3</sup> Green KHC 6% is suitable for use in combination with:

- Potable and fresh water.
- Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously.
- Dry powder extinguishing agents either separately or as twin agent systems.

As required by NFPA 11, Avio<sup>F3</sup> Green KHC 6% should not be mixed with other foam concentrates. Such mixing could

lead to chemical changes in the product and a possible reduction in or loss of fire fighting capability.

#### **Environmental**

Avio<sup>F3</sup> Green KHC 6% contains no intentionally added fluorosurfactants, fluoropolymers, organohalogens or PFAS.

Avio<sup>F3</sup> Green KHC 6% is 100% biodegradable, however, care should be taken to prevent discharge from entering groundwater, surface water, or storm drains. Disposal of Avio<sup>F3</sup> Green KHC 6% foam concentrate or foam solution should be made in accordance with federal, state, and local regulations.

#### Storage

Avio<sup>F3</sup> Green KHC 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 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). Refer to NFTB100 for further information.

Foam concentrates are subject to evaporation which accelerates when the product is exposed to air. Storage tanks should be kept full, sealed and fitted with a pressure vacuum vent to prevent free exchange of air. The recommended storage environment is within the temperature range of 35°F to 120°F (2°C to 49°C).

#### 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 National Foam foam concentrates have been tested and shown no significant loss of firefighting performance, even after 10 years.

Annual testing of all firefighting foam is recommended by the National Fire Protection Association (NFPA). National Foam provides a Technical Service Program to conduct such tests. Refer to National Foam product data sheet NFC960 for further details on Technical Service program.



Ordering Information			
Container	Shipping Weight	Shipping Dimensions	Part Number
5-Gallon Pails (19 liters)	44.1 lb. (20.0 kg)	1.13 cu. ft.3 (0.032 cu. m)	2196-3340-0
55-Gallon Drums (208 liters)	480.6 lb. (218.0 kg)	11.1 cu. ft. <sup>3</sup> (0.314 cu. m)	2196-3481-0
275-Gallon IBC Reusable Tote Tank (1041 liters)	2428.5 lb. (1102.0 kg)	48.2 cu. ft.3 (1.365 cu. m)	2196-3725-0

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