

## Description

Fomtec FFFP ARC 3x3 NV Avalanche is a high efficiency multipurpose alcohol resistant film forming fluoro protein foam (3x3) concentrate.

Fomtec FFFP ARC 3x3 NV is a liquid based on environmentally friendly natural protein and does not contain any polymer that makes general AR type foam concentrates viscous. Its high fluidity makes the induction easier and accurate through both portable and fixed inline proportioners even at extremely low temperatures (-18° C).

The advantage of Fomtec FFFP ARC 3x3 NV is the 3% induction ratio on all class B fires including polar solvents in fresh or seawater.

The low surface tension of the water foam concentrate solution enables the aqueous film, although heavier than the burning liquid, to float on top of the hydrocarbon fuel surface. The specially selected fluorocarbon surfactants 'seal' the bubbles against attack from polar solvents and also provide a highly effective floating foam layer on top of the polar solvents.

## Application

Fomtec FFFP ARC 3x3 NV is intended for use on class B hydrocarbon fuel as well as on polar solvent i.e Isopropanol, Methanol etc and other foam destroying product fires such as MTBE. Typical applications are bulk storage tank protection, process areas, power stations, marine terminals, municipal fire departments, offshore platforms etc. It is compatible with all dry chemical powders.

## Fire Performance & Foaming

Fomtec FFFP ARC 3x3 NV has been designed to give the best properties of

- Aqueous film forming foam
- Alcohol resistant foam
- Fluoro protein foam

The fire performance of this product has been measured and documented according to "International Approvals" stated in this document. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 6:1, average ¼ drainage time 02:20 minutes using UNI 86 test nozzle.

## Compatibility

Contact one of the Fomtec sales team with questions.

## Proportioning and equipment

Fomtec FFFP ARC 3x3 NV can easily be proportioned at the correct dilution using conventional equipment such as:

- Inline inductors
- Balanced pressure, variable flow proportioning systems
- Bladder tanks
- Around the pump proportioning systems
- Water turbine driven foam proportioners
- Self inducing branch pipes and nozzles

The equipment should be designed to the foam type.

Fomtec FFFP ARC 3x3 NV can be used with a wide variety of air aspirating discharge devices such as monitors, foam chambers, foam top pourers, foam/water sprinklers. It may also be used with non-aspirating devices such as spray nozzles and sprinklers on shallow fires where a stable foam cover is not essential

Optimal performance is obtained through gentle application, but will also function through forceful application on large hydrocarbon fires such as storage tank fires. Avalanche can also generate medium expansion foam.

## Technical data

Appearance	Dark brownish liquid
Specific gravity at 20°C	1,17 +/- 0.01 g/ml
Viscosity at 20°C	≤ 30 mPas
pH	6,1 – 7,1
Freezing point	-18°C
Recommended storage temperature	-18 - 55°C
UL-listed storage temperature*	-6,7 - 49°C
Suspended sediment (v/v)	Less than 0,2%
Surface tension	≤ 18,0 dynes/cm

*\*This product is tested according to UL-standard and has passed the specific circumstances in the test.*

## Environmental impact

Fomtec FFFP ARC 3x3 NV is formulated using raw materials specially selected for their fire performance and their environmental profile. Fomtec FFFP ARC 3x3 NV is biodegradable. The handling of spills of concentrate or foam solutions should however be undertaken according to local regulations. Normally sewage systems can dispose foam solution based on this type of foam concentrate, but local sewage operators should be consulted in this respect.

Full details will be found in the Material Safety Datasheet (MSDS).

## Storage / Shelf life

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 10 years will be found in temperate climates. As with all foams, shelf life will be dependent on storage temperatures and conditions. If the product is frozen during storage or transport, thawing will render the product completely usable.

We recommend following our guidelines for storage and handling ensuring favourable storage conditions.

## Packaging

We supply this product in 25 litre cans and 200 litre drums. We can also ship in 1000 litre containers or in bulk.

Litres per piece	Packaging	Part no
25 litres	Can	13-3340-01
200 litres	Drum	13-3340-02
1000 litres	Container	13-3340-04
Bulk	Special request	

## International Approvals

- EN 1568 Parts 3 and 4
- Bureau Veritas, Marine Approval
- UL 162 7th Edition
- ULC listed