

## Features

Fluorine free alcohol resistant protein foam  
Approved according to IMO 1312 and MED  
Freeze protected  
Suitable for Class A and B fires  
Low and medium expansion foam

## Description

Fomtec P3% AR is an alcohol resistant protein foam concentrate (P-ARC) consisting of hydrolysed protein hydrolysate and a blend of hydrocarbon surfactants and polymers, various solvents and stabilisers. All Fomtec P-ARC foam concentrates are formulated totally free of fluorinated substances.

The unique formulation of Fomtec P3% AR enables the foam to rapidly cover the burning surfaces and control over the fire. As a result, it is effective against hydrocarbon fires and with the presence of special polymers it is also very effective against polar solvents. The fire suppression mechanism of Fomtec P3% AR is utilising the foam blankets ability to block oxygen supply to the fuel and the high water content cools the fuel surface reducing the evaporation of flammable vapours. Additionally, the foam blanket prevents reignition of an extinguished fuel surface. When applied on polar solvents a strong polymeric membrane is formed and makes it possible for the foam blanket to extinguish effectively. It also works on severe foam destroying liquids, like MTBE.

The foam concentrate is pseudoplastic and may need special proportioning equipment.

Fomtec P3% AR should be used at a 3% proportioning ratio (3 parts concentrate and 97 parts of water) for both hydrocarbon and polar solvent fuels. May be used with all water types. For use on Class A type fires, a proportioning ratio of 0,3% to 1% is recommended depending on application and discharge device.

## Application

Fomtec P3% AR is tested according IMO 1312 for use on class B hydrocarbon fuel fires such as oil and diesel as well as polar solvent fires such as IPA and acetone. Can also be used on class A fires such as wood, paper, textiles etc.

Typical applications include high risk installations such as:

- Marine application where IMO and MED is required

## Fire Performance & Foaming

The fire performance of this product has been tested and documented according to the "International Approvals" stated in this document. The use of the product should follow design guidelines appropriate to the type of system and application. The foaming properties are depending on equipment used and other variables such as water and ambient temperatures. Average expansion 5:1, average 25% drainage time 6:30 minutes

using UNI 86 test nozzle according to EN 1568-3.

## Equipment

Fomtec P3% AR can easily be proportioned at the correct ratio using conventional proportioning equipment. The equipment should be designed to the foam type.

Fomtec P3% AR is suitable for use with Type II (gentle application) and Type III (direct application) discharge devices as well as sprinklers according to EN 13565-2. It can be used in low and medium expansion applications with all conventional aspirating and non-aspirating discharge devices.

Fomtec P3% AR is also suitable for use in CAF-systems.

## Compatibility

Fomtec P3% AR can be used together with foam compatible powders and other expanded foams.

It is suitable for all water types.

For mixing with other foam concentrates, contact Fomtec for advise and guidance. For material compatibility please refer to Fomtec Technical Advices FTA 20 addressing the topic.

## Typical data

Appearance	Dark brownish
Specific gravity at 20°C	1,08 ± 0,020 g/ml
Viscosity at 20°C spindle #4, 60 rpm	< 2500 mPas
pH	6,0 – 8,5
Freezing point	-6°C
Recommended storage temperature	-5°C - 55°C
Suspended sediment (v/v)	< 0,2%

## Environmental

Fomtec P3% AR is non-hazardous, biodegradable substance formulated using raw materials specially selected for their fire performance and their environmental profile. All raw materials are registered in European REACH-database. The product is totally free from fluorinated surfactants and polymers and other organohalogens, and therefore it does not contain any PFOS or PFOA.

The disposal of spills of concentrate or premix foam solution should be made in accordance with local regulations. For more detailed information please consult our Fomtec Technical Advices FTA 40.

## Storage / Shelf life

Stored in original unbroken packaging the product will have a long shelf life. Shelf life in excess of 5 years will be found in temperate climates. As with all foam concentrates, shelf life will be dependent on storage temperatures and conditions. For storage recommendations and material compatibility please refer to Fomtec Technical Advices FTA 10 addressing the topic.

## Inspection/Testing/ Maintenance

All foam concentrates should be tested annually. Testing should be carried out by an approved laboratory certified to assess firefighting foam quality according to relevant standards, such as NFPA 11, EN 13565-2, EN 1568 and IMO MSC.1Circ. 1312.

Storage containers should be inspected and reevaluated for the suitability of the storage location regarding temperature fluctuations (temperature should be as stable as possible). Exposure to direct sunlight should be avoided.

## Packaging

We supply this product in 25 litre or 5 US gallon cans, 200 litre or 55 US gallon drums, and 1000 litre or 265 US gallon IBC containers. Larger bulk supply is available against special request

## International Approvals

- IMO 1312
- MED Wheelmark

Volume per piece	Packaging	Part no	Approx. Shipping weight*	Dimensions (mm) L x W x H
25 ltr	Can			295 x 260 x 441
200 ltr	Drum			581 x 581 x 935
1000 ltr	Container			1200 x 1000 x 1150
5 US gal.	Can			295 x 260 x 441
55 US gal.	Drum			581 x 581 x 935
265 US gal.	Container			1200 x 1000 x 1150
Bulk	Special request			

\*including packaging