

Eco-Safe 3% Synthetic Training Foam

Fluorosurfactant based fire fighting foams are now being limited to emergency fire fighting use by environmental regulators in the European Union. These front line foams are no longer permitted for training where there is a risk to the environment. Eco-Safe 3% Synthetic overcomes these restrictions.

Kerr Fire has increasingly recognised its joint responsibility with foam users to ensure that the environmental impact from the use of foams and fire ground run-off is minimised. A key element of this responsibility is to significantly control and reduce the volume of fluorosurfactants and other potentially harmful chemicals being released into the environment. At the same time it is imperative that front line fire fighters are continuously trained in critical fire fighting techniques to ensure high performance standards are maintained and risks to fire fighter safety are minimised in the event of an emergency.

The potential for conflict between all these objectives is obvious and real, no more so than in aviation fire fighting. Kerr Fire has developed Eco-Safe 3% Synthetic to eliminate this conflict and allow foam users to meet their key objectives and responsibilities within the legislative requirements.

Description

Eco-Safe 3% Synthetic is a Fluorine Free Foam (F3) concentrate for 3% usage, which has been specially formulated to provide a unique training foam with a synthetic base material but no fluorosurfactants.

Eco-Safe 3% Synthetic mimics the performance of the aviation industry standard for fire fighting foams to provide realistic fire training without the use of fluorinated chemicals.

Eco-Safe 3% Synthetic is the first foam which can be used routinely as a substitute for vehicle and equipment testing, while complying with Civil Aviation and Environment Agency regulatory requirements.

Eco-Safe 3% Synthetic was developed to meet the stringent environmental and regulatory requirements of the aviation sector, but this does not limit its use to aviation. Eco-Safe 3% Synthetic has clear training benefits for other fire fighting applications like offshore drilling and production platforms

Environment

Eco-Safe 3% Synthetic is formulated for minimum environmental impact. It is produced from synthetic detergent, and is free of fluorinated chemicals, and glycol ethers.

Application

Eco-Safe 3% Synthetic should be used in training through conventional foam induction and delivery equipment. It is not recommended for real life fire fighting incidents.

Induction

3% induction is recommended to simulate induction and foam quality performance

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Storage

Eco-Safe 3% Synthetic should be stored in original containers. Eco-Safe 3% Synthetic should be used within 2 years from the date of purchase.

Disposal

Please refer to Kerr Fire's Foam Disposal Guide and MSDS for more information.

Product Quality

Kerr Fire operates a quality management system which complies with the requirements of BS EN ISO 9001.

Typical Physico-Chemical Properties

Appearance		Yellow Liquid
Specific Gravity @ 20°C (68°F)		≥ 1.01
pH @ 20°C (68°F)		7.5 - 8.5
Viscosity @ 20°C (68°F)	mm ² sec ⁻¹	1 - 3
Maximum continuous storage temperature	°C (°F)	49 (120)
Maximum intermittent storage temperature	°C (°F)	60 (140)
Freezing point	°C (°F)	-3 (27)
Effect of freeze/thaw		No loss of performance
Lowest use temperature	°C (°F)	0 (32)

Foam Properties

Foam generated using the U.K. Defence Standard DEF42-40 5 lpm branchpipe at 7 Bar pressure.
Foam collected in a 1630 ml N.F.P.A. drainage pan.

Expansion Ratio		≥ 7:1
25% Drainage Time	min/sec	≥ 3'00"

Typical Packing Specification

	Plastic Square	Plastic Cylindrical
Capacity	20 Litres	200 Litres
Empty Weight (kg)	1.2	9.0
Filled Weight (kg)	23	230
Dimensions (mm)	300 L x 250 D x 390	H580 D x 922 H

EMERGENCY FOAM SERVICE Call +44 (0) 15242 61166 – 24 hours a day, every day

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