Tridol C 3

Aqueous Film-Forming Foam (AR-AFFF) Concentrate

- Cost-effective
- Highly versatile
- Film-forming for fast flame knockdown and extinguishment
- Burnback resistance and post-fire security

Tridol C 3 is a cost-effective synthetic Aqueous Film-Forming Foam (AFFF) concentrate for extinguishing and securing flammable hydrocarbon liquid fires.

Tridol C 3 is a unique combination of hydrocarbon and fluorochemical surface active agents. It produces a vapour-sealing aqueous film that spreads rapidly over the fuel surface to provide rapid control and extinguishment.

- Film-forming for fast flame knock down and extinguishment.
- Burnback resistance and post-fire security.
- Foam blanket reseals when ruptured by personnel or equipment.

Applications

Tridol C 3 is used in high risk situations where hydrocarbons (such as crude oil, gasoline, diesel fuel, and aviation kerosene) are stored, processed, or transported. Other applications include hydrocarbon storage tanks, process areas, warehouses, road/rail loading racks, power stations, marine terminals, and offshore platforms.

Tridol C 3 provides a vapour-suppressing foam blanket on unignited hydrocarbon spills.

Tridol C 3 can also be used as a wetting agent in combating fires in Class A materials such as wood, paper, and tyres.

Performance

The fire performance of Tridol C 3 is measured primarily against Underwriters Laboratories Standard UL 162 (7th Edition).

European Standard EN1568-3:2008 (S.P. Sweden) Extinction Class 1,

Burnback Level B.

Approvals

Tridol C 3 is UL Listed.

Independently Tested and Certified to EN1568:2008 Part 3.

Equipment

Tridol C 3 is intended for use at 3% (3 parts concentrate to 97 parts water). Tridol C 3 is readily proportioned using conventional foam proportioning equipment such as portable and fixed (in-line) foam venturi proportioners, handline nozzles/branchpipes with pick-up tubes, balanced pressure variable flow proportioners, balanced pressure bladder tank proportioners, and around-the-pump proportioners.

Tridol C 3 can be used with air aspirating discharge devices such as low expansion branchpipes, monitors, top pourer sets, rimseal foam pourers, foam/water sprinklers, and base (sub-surface) injection systems.

Tridol C 3 can be used with non-aspirating discharge devices such as spray/fog branchpipes and nozzles, monitors, and spray/fog sprinklers. However, non-aspirated application is not recommended as the primary method of attack for major fires where a stable foam cover is essential.

Compatibility

Tridol C 3 is suitable for use in combination with:

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

Environment

Tridol C 3 is biodegradable and demonstrates low toxicity to aquatic organisms.

Storage

Tridol C 3 is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored properly.

Disposal

Tridol C 3 can be successfully treated in biological waste water treatment systems.

Reliability

Tridol C 3 is produced to rigorous quality control standards to ensure consistent fire performance and excellent product reliability.

Angus Fire operates a quality management system which complies with the requirements of BS EN ISO 9001:2008.

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Typical Physico-Chemical Properties		
Appearance		Dark brown liquid
Specific gravity @ 20°C (68°F)		1.002 - 1.022
pH @ 20°C (68°F)		5.9 - 6.9
Viscosity @ 20°C (68°F)	mm^2sec^{-1}	3.0
Maximum continuous storage temperature	°C (°F)	60 (140)
Effect of freeze/thaw		No performance loss
Lowest use temperature	°C (°F)	-1 (30)
Sediment as shipped	% v/v	≤ 0.25
Sediment after ageing	% v/v	≤ 0.5

Typical Foam Properties	
These vary depending on the performance characteristics of the foam. When tested in accordance with UK Defence Specification 42-40 it gives the following typical properties	
Expansion ratio	≥ 7:1
25% drainage time	≥ 3 mins

Packing Specification					
	Plastic Square	Plastic Square	Plastic Cylindrical	Plastic Cylindrical	Ecobulk MX
Capacity	25 litres	5 US gallons	200 litres	55 US gallons	1000 litres
Empty weight (kg)	1.2	0.8	9.0	9.0	70
Filled weight (kg)	26	20	211	219	1080
Dimensions (mm)	448 x 286 x 286	402 x 293 x 240	580 D x 922 H	580 D x 922 H	1200 L x 1000 W x 1160 H

EN1568:2008 Parts 3 & 4

UL LISTED

For emergency supplies of Tridol C 3 phone +44 (0) 15242 61166

INTERNATIONAL SALES
Angus Fire Ltd
Angus House, Haddenham Business Park,
Pegasus Way, Haddenham, Aylesbury, HP17 8LB, UK
Tel: +44 (0)1844 293600 • Fax: +44 (0)1844 293664

UK SALES
Angus Fire Ltd
Station Road, Bentham, Lancaster, LA2 7NA, UK
Tel: +44 (0)1524 264000 • Fax: +44 (0)1524 264180

Email: general.enquiries@angusuk.co.uk • Web: www.angusfire.co.uk

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