

# Tridol S3 LT

## Synthetic Aqueous Film-Forming Foam (AFFF) Concentrate

- Film-forming for fast flame knockdown and extinguishment
- Burnback resistance and post-fire security
- Environmental



Tridol S3 LT is a superior quality synthetic Aqueous Film-Forming Foam (AFFF) concentrate for extinguishing and securing flammable hydrocarbon liquid fires.

Tridol S3 LT 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 knockdown and extinguishment.
- Burnback resistance and post-fire security.
- Foam blanket reseals when ruptured by personnel or equipment.

### Applications

Tridol S3 LT is used in high risk situations where hydrocarbons (such as crude oil, gasoline, diesel fuel, and aviation kerosene) are stored, processed, or transported. It is used extensively on Rapid Intervention Vehicles (RIV) at major international airports and military bases where fast extinguishment with limited quantities of foam is essential for saving life. Other applications include hydrocarbon storage tanks, process areas, warehouses, road/rail loading racks, power stations, marine terminals, and offshore platforms.

Tridol S3 LT provides a vapour suppressing foam blanket on unignited hydrocarbon spills.

Tridol S3 LT 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 S3 LT is measured primarily against ICAO Level B.

### Approvals

Tridol S3 LT is fully approved to NATO Stock Number 6810-99-772-9963 and certified to ICAO Level B.

### Equipment

Tridol S3 LT is intended for use at 3% (3 parts concentrate to 97 parts water).

Tridol S3 LT 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 S3 LT 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 S3 LT 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 S3 LT 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 S3 LT is biodegradable and demonstrates low toxicity to aquatic organisms.

### Storage

Tridol S3 LT is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored properly. It has a low minimum use temperature for storage and use in cold climates.

### Disposal

Forfire water runoff and accidental spillage please refer to Angus Fire's Foam Disposal Guide and MSDS for more information.

### Reliability

Tridol S3 LT 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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Physico-Chemical Properties		
Appearance		Amber liquid
Specific gravity @ 20°C (68°F)		1.04
pH @ 20°C (68°F)		6.5 - 8.0
Viscosity @ 20°C (68°F)	mm <sup>2</sup> sec <sup>-1</sup>	5.0
Viscosity @ 0°C (32°F)	mm <sup>2</sup> sec <sup>-1</sup>	12.0
Viscosity @ -10°C (14°F)	mm <sup>2</sup> sec <sup>-1</sup>	18.0
Maximum continuous storage temperature	°C (°F)	49 (120)
Effect of freeze/thaw		None
Lowest use temperature	°C (°F)	-13 (0)
Sediment as shipped	% v/v	≤ 0.1
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 Standard 42-40 it gives the following properties:	
Expansion Ratio	≥ 7:1
25% Drainage Time	≥ 3 mins 30 seconds

Typical 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)	27	21	217	225	1110
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

**For emergency supplies of Tridol S3 LT phone +44 (0) 15242 61166**

#### INTERNATIONAL SALES

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Angus Fire operates a continuous programme of product development. The right is therefore reserved to modify any specification without prior notice and Angus Fire should be contacted to ensure that the current issues of all technical data sheets are used.

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