



Tridol^{C6} S1 Zero

Synthetic Aqueous Film-Forming Foam (AFFF) Concentrate

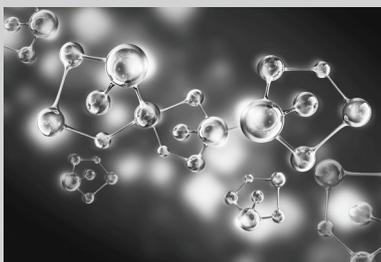
Integrity

Doing what's right, rather than what's convenient

Angus Fire prides itself on the open and honest way in which we conduct our business throughout the world. Our foams are an extension of our ethical beliefs and we pride ourselves in being the responsible foam manufacturer, balancing high performance with minimal environmental impact. Our C6 foams contain no PFOA and no PFOS, in accordance with US EPA Stewardship Programme 2010/15 and EU Directive 2006/122/EC and amended Council Directive 76/769/EEC.

C6 Fluorosurfactants

These are the most effective agents currently available to tackle serious flammable liquid fires, providing firefighter safety and asset protection. Angus foams containing C6 surfactants utilise the very latest in firefighting foam technologies, developed and refined specifically to lower the environmental impact without reducing performance.



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

Tridol^{C6} S1 Zero is a superior quality synthetic Aqueous Film-Forming Foam (AFFF) concentrate for extinguishing and securing flammable hydrocarbon liquid fires.

Tridol^{C6} S1 Zero 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^{C6} S1 Zero is used in high risk situations where hydrocarbons (such as crude oil, diesel and aviation kerosene) are stored, processed, or transported. It is used extensively on Rapid Intervention Vehicles (RIV) where fast extinguishment with limited quantities of foam is essential for saving life. Other applications include

hydrocarbon storage tanks, process areas, warehouses, power stations and offshore platforms.

Tridol^{C6} S1 Zero provides a vapour suppressing foam blanket on unignited hydrocarbon spills.

Approvals and Listings

Tridol^{C6} S1 Zero is independently tested and certified to EN1568:2008 part 3.

Performance exceeds ICAO Level B fire performance and is certified to this performance level.

Equipment

Tridol^{C6} S1 Zero is intended for use at 1% (1 part concentrate to 99 parts water). Tridol^{C6} S1 Zero is readily proportioned using conventional foam proportioning equipment.

Tridol^{C6} S1 Zero can be used with air aspirating discharge devices and non-aspirating. Devices include low expansion branchpipes, monitors, top pourers, rimseal pourers, as well as water and foam sprinklers.

Non-aspirated foam is suitable for shallow fuel fires and spill fires. Where a major fuel fire is involved, Angus Fire always recommends the use of aspirated foam where a stable foam blanket is essential.

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Compatibility

Tridol^{C6} S1 Zero 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 due to the C6 content.
- Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously.

Environment

The C6 surfactants balance high performance and low environmental impact. Tridol^{C6} S1 Zero demonstrates low aquatic toxicity.

Storage

Tridol^{C6} S1 Zero is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored properly.

Disposal

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

Product Quality

Tridol^{C6} S1 Zero production is closely controlled and is audited by UL in accordance with their approval system.

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

Typical Physico-Chemical Properties

| | | |
|--|-----------------------------------|------------------------|
| Appearance | | Amber Liquid |
| Specific gravity @ 20°C (68°F) | | 1.00 - 1.04 |
| pH @ 20°C (68°F) | | 6.6 - 7.6 |
| Viscosity @ 20°C (68°F) | mm ² sec ⁻¹ | 5 |
| Maximum continuous storage temperature | °C (°F) | 49 (120) |
| Maximum intermittent storage temperature | °C (°F) | 60 (140) |
| Freezing point | °C (°F) | -9 (15.8) |
| Effect of freeze/thaw | | No loss of performance |
| Lowest use temperature | °C (°F) | -8 (17.6) |

Typical 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 | | ≥8:1 |
| 25% drainage time | min/sec | ≥ 2'40" |

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) | 28.8 | 21.7 | 229.6 | 238.8 | 1173.0 |
| 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 |
| Part Number | FN0309GOP | FN0309TOP | FN0309JOP | FN0309WOP | FN0309L8 |



**EN1568:2008
Part 3**

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

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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.