



Forexpan

0.1% - 1%

Class A Foam 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 fluorine free foams are designed not to contain any fluorosurfactants, fluoropolymers, organohalogens, PFCAs, PFOA and no PFOS in accordance with EU Directive 2006/122/EC and amended Council Directive 76/769/EEC.

Balanced Chemical System

Every foam is designed and manufactured to work in the specific risk for which it is intended. Class A foams are no exception and are manufactured with great care to ensure maximum performance. With an accurate balance of extinguishing compounds and being 100% biodegradable, these foams offer the highest performance against their intended risk.



- Economical
- Flexible in use
- Easily premixed
- Reduced storage space
- Long shelf life

Forexpan is a synthetic fire fighting foam concentrate specially formulated for Class A applications such as forestry and wildland fire control, structural fires, and tyre and paper fires.

The balanced chemical system in Forexpan reduces the surface tension of water to increase the penetrating power into burning Class A materials.

- At 1% Forexpan can be used for small Class B hydrocarbon spill fires involved in a forestry environment. eg. leaking truck fuel tanks or refuelling equipment.
- Economical - 0.1% to 1.0% proportioning rate depending on method of application.
- Acceptable environmental characteristics.
- Flexible in use - can be used through conventional water nozzles, air aspirating foam nozzles, compressed air systems or dropped from aircraft.
- Easily premixed - with fresh, salt or brackish water.
- Reduced storage space - one 5 gallon drum will produce 500-5000 gallons of foam solution.
- Excellent foam ability - particularly with fresh water, making Forexpan ideal for use in fixed wing aircraft and helicopter buckets.

- Long Shelf Life - in excess of 10 years if stored in accordance with Angus Fire recommended guidelines.

Environment

Forexpan has acceptable environmental characteristics, and is readily biodegradable.

Five Way Attack

Forexpan is highly versatile and can be used with a wide range of equipment for different methods of application. It is intended for use at 0.1% to 1.0% depending on the method of application:

Ground Attack

Air aspirating nozzle of 0.3% proportioning rate; 0.1% for mop-up.

Structural Attack:

Conventional Nozzles; 0.5% proportioning rate.

Aerial Attack:

Fixed or Rotary Wing delivery systems; 0.6% proportioning rate.

CAF Systems:

Compressed Air Foam System; 0.15% proportioning rate.

Fire Breaks and small Class B spill fires:

1% proportioning rate.

The above proportioning rates are given for guidance only.

Users may vary them based on operational experience with the different systems.

Forexpan 0.1% - 1%

Class A Foam Concentrate

Compatibility

Forexpan is suitable for use in combination with soft or hard, fresh, brackish or sea water.

Storage

Forexpan is exceptionally stable in long-term storage. A shelf-life of at least ten years may be expected if it is stored

properly. When stored below -10°C, some cloudiness may occur, however on subsequent warming, this will disappear without any detrimental effect.

Disposal

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

Reliability

Forexpan 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

Typical Physico-Chemical Properties

| | | |
|--|-----------------------------------|------------------------|
| Appearance | | Light Yellow Liquid |
| Specific gravity @ 20°C (68°F) | | 1.03 - 1.05 |
| pH @ 20°C (68°F) | | 8.0 - 9.5 |
| Viscosity @ 20°C (68°F) | mm ² sec ⁻¹ | 20 |
| Maximum continuous storage temperature | °C (°F) | 49 (120) |
| Maximum intermittent storage temperature | °C (°F) | 60 (140) |
| Freezing point | °C (°F) | -10 (27) |
| Effect of freeze/thaw | | No loss of performance |
| Lowest use temperature ° | C (°F) | -10 (27) |

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 | 226 | 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 |
| Part number | | | | | |



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

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 261580

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.

© Angus Fire 5130/3 09.17
Forexpan® is a registered trademark of the Angus International group.