

Forexpan S

Forexpan S 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 S reduces the surface tension of water to increase the penetrating power into burning Class A materials.

- At 1% Forexpan S 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 foamability - 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 S has acceptable environmental characteristics, and is readily biodegradable.

Five Way Attack

Forexpan S 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.

Compatibility

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

Storage

Forexpan S 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

Forexpan S can be successfully treated in biological waste water treatment systems.

Reliability

Forexpan S 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		Clear pale yellow liquid
Specific gravity @ 20°C (68°F)		1.03 - 1.05
pH @ 20°C (68°F)		8.0 - 9.5
Viscosity @ 40°C (105 °F)	mm ² sec ⁻¹	11.0
Viscosity @ 20°C (68°F)	mm ² sec ⁻¹	20.0
Viscosity @ 0°C (32°F)	mm ² sec ⁻¹	65.0
Maximum continuous storage temperature	°C (°F)	40 (104)
Maximum intermittent storage temperature	°C (°F)	50 (122)
Effect of freeze/thaw		No performance loss
Lowest use temperature	°C (°F)	-10 (9)
Sediment as shipped	% v/v	≤ 0.1
Sediment after ageing	% v/v	≤ 0.5

Packing Specification	Plastic Square		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

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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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