



## Respondol®

### ATF 1x3%

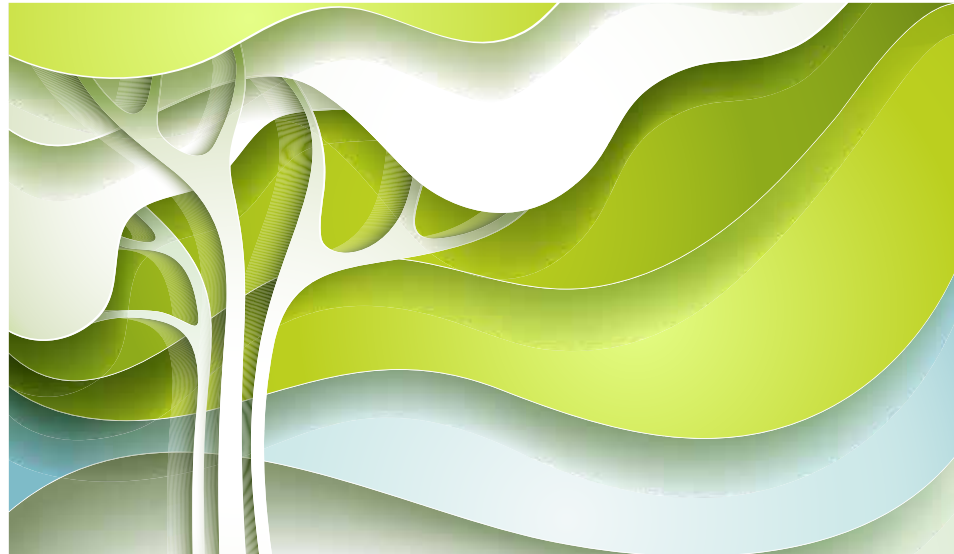
Fluorine Free (FF)  
Foam Concentrate

- A superior quality 1x3% synthetic fluorine free, alcohol resistant foam concentrate
- Specifically designed for emergency responders faced with a variety of high-hazard risks in multiple industrial situations
- UL 162 listed for Type II and Type III applications
- LASTFIRE certified as Good with all nozzle types, both with fresh and salt water
- Independently GreenScreen Certified to Silver
- Formulated without Siloxanes
- Can be used in combination with dry chemical for twin-agent application
- Provides a vapour-sealing blanket of foam that rapidly spreads over the fuel surface to provide rapid control and extinguishment
- For use at 1% on hydrocarbons and 3% on polar solvents and is readily proportioned using conventional foam proportioning equipment - portable and fixed
- Suitable for use with fresh and salt water
- 100% Biodegradable



#### LOOK OUT FOR ME!

Seeing this icon on our hardware datasheets, means it is compatible with the appropriate Angus Fire F3 concentrate.



Respondol® ATF 1x3 is a superior quality synthetic fluorine free (FF) foam concentrate, designed for extinguishing and securing all types of flammable liquid fires and Class A incidents. Respondol® ATF 1x3 has been designed specifically for emergency responders who are faced with high-hazard risks at e.g. oil, gas and chemical manufacturing facilities.

Respondol® ATF 1x3 is a patented combination of surfactants and other ingredients to produce a vapour sealing blanket of foam that rapidly spreads over the surface of the fuel to provide rapid control and extinguishment.

- Unique patented formulation only available from Angus Fire
- Specifically designed for those emergency responders under environmental pressures

#### Applications

Respondol® ATF 1x3 is used in high-risk situations where hydrocarbons and/or polar solvents are stored, processed or transported. The product is designed to extinguish fires and suppress vapour on Class B hydrocarbon and polar solvent fuel-in-depth and fuel spill fires.

Examples of various fire risks where Respondol® ATF 1x3 will be highly effective once deployed in case of fire, are oils, gasoline, diesel fuel, & aviation kerosene and on the polar solvent side alcohols, ketones, esters, and ethers.

Respondol® ATF 1x3 provides a vapour suppressing foam blanket on unignited hydrocarbon spills. Respondol® ATF 1x3 can also be used as a wetting agent in combatting fires in Class A materials such as wood, paper and tyres.

#### Approvals and listings

- UL 162 Type II and Type III
- ULC162 Type II and Type III
- Respondol® ATF 1x3 passed LASTFIRE with excellent results with fresh and salt water
- Respondol® ATF 1x3 is fully GreenScreen Certified to Silver

#### Equipment

Respondol® ATF 1x3 is intended for use at 1% on hydrocarbons and 3% on polar solvents. It is readily proportioned using conventional foam proportioning equipment such as portable and fixed (in-line) foam venturi proportioners, variable flow balanced pressure pump or bladder tank proportioners. Respondol® ATF 1x3 foam solution will develop an effective foam blanket when discharged through semi aspirating or conventional low expansion discharge devices (mobile and fixed) as well as through medium expansion devices. Best results are achieved with appropriate application techniques; check out the video below:

For the 'Handline Techniques' video, scan the QR Code here:



For additional information please contact Angus Fire.

#### Environment

Respondol® ATF 1x3 is 100% biodegradable and is manufactured without any added fluorinated surfactants or fluorinated polymers. For information on use, discharge and disposal of all firefighting foam products, please refer to our website and Safety Datasheet (SDS).

# Respondol® ATF 1x3%

## Fluorine Free (FF) Foam Concentrate

Respondol® ATF 1x3 concentrate is GreenScreen Certified to Silver which means a complete assessment of the formulation, including impurities, has been conducted to assess impact on over 20 end-points. For more information visit:  
www.greenscreenchemicals.org

### Compatibility

Respondol® ATF 1x3 is suitable for use in combination with:

- Soft or hard, fresh, brackish or salt water

- Dry chemical for twin-agent application
- Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously

### Storage

Respondol® ATF 1x3 is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored correctly. For details on foam concentrate storage and preservation, refer to Angus Fire's Foam Storage Guide 6164-F3.

### Disposal

For further details on water runoff, accidental spillage and foam disposal, please refer to Angus Fire's Foam Disposal Guide 6790/1.

### Product Quality

Respondol® ATF 1x3 production is closely controlled; Angus Fire operates a quality management system which complies with the requirements of BS EN ISO 9001 and BS EN ISO 14001.

### Typical Physico-Chemical Properties

Appearance		Yellow
Specific gravity @ 20°C (68°F)		1.06 - 1.08
pH @ 20°C (68°F)		6.5 - 7.5
Viscosity @ 20°C (68°F)	cP	Non-newtonian
Maximum continuous storage temperature	°C (°F)	49 (120)
Maximum intermittent storage temperature	°C (°F)	60 (140)
Freezing point	°C (°F)	-10 (14)
Effect of freeze/thaw		No loss of performance
Lowest use temperature	°C (°F)	1.7 (35)

### 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.

Induction rate		1	3
Expansion ratio		≥ 6:1	≥ 7:1
25% drainage time	hour/min/sec	≥ 0'30'00"	≥ 1'00'00"

### Ordering Information:

	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	21	223	232	1140
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	FN0513G0P	FN0513T0P	FN0513J0P	FN0513W0P	FN0513L8

### EMERGENCY FOAM SERVICE

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



### GENERAL 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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