



**ANGUS  
FIRE**



## Respondol ATF 3-3%

Fluorine Free (FF)  
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 formulations contain no fluorosurfactants, fluoropolymers, organohalogens, PFAS, PFOA and no PFOS in accordance with EU Directive 2006/122/EC and mended Council Directive 76/769/EEC.

### Patented Foam Technology

Since Angus Fire became the first foam manufacturer to offer a commercially available fluorine free foam, our chemists have worked hard to always push the boundaries of fluorine free technology. Respondol foam concentrate has been designed as a multi-purpose fluorine free foam for those circumstances when minimising environmental impact is paramount.

A unique patented formulation – repeatable and responsible certification



- High approval rating under EN1568 pt 3 & 4 on all fuels using all waters; 1A/1A – 1A/1A – 2A/2A.
- Lower viscosity than other fluorine free foams to ensure easy induction.
- Fluorine free to minimise environmental persistence.
- 3% induction on both hydrocarbon and polar solvent risks.

Respondol ATF 3-3 is a superior quality 3% synthetic fluorine free (FF) foam concentrate, designed for extinguishing and securing all types of flammable liquid fires and Class A incidents. Respondol ATF 3-3 has been designed specifically for emergency responders who are faced with a variety of risks in a range of situations.

Respondol ATF 3-3 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.
- Approved to EN1568 part 3 and 4 on all fuels and all water types.

### Applications

Respondol ATF 3-3 is used in high risk situations where hydrocarbons (such as

oils, gasoline, diesel fuel, and aviation kerosene) are stored, processed, or transported and/or polar solvents (such as alcohols, ketones, esters, and ethers) are stored, processed, or transported.

Respondol ATF 3-3 provides a vapour suppressing foam blanket on unignited hydrocarbon spills.

Respondol ATF 3-3 can also be used as a wetting agent in combating fires in Class A materials such as wood, paper, and tyres.

### Approvals and listings

Respondol ATF 3-3 is independently tested and certified to EN1568:2008 part 3 and 4. Performance exceeds the requirements of these tests.

Respondol ATF 3-3 is audited and approved to Underwriters Laboratories UL162 (7th Edition).

Respondol ATF 3-3 also meets the requirements of IMO MSC.1/Circ.1312.

Respondol ATF 3-3 passed Lastfire with excellent results in fresh and sea water.

### Equipment

Respondol ATF 3-3 is intended for use at 3% on hydrocarbons and polar solvents. It is readily proportioned using conventional foam proportioning equipment such as portable and fired (in-line) foam venturi proportioners.

Respondol ATF 3-3 should be used with air aspirating discharge devices such as low expansion branchpipes and other devices.

# Respondol ATF 3-3%

## Fluorine Free (FF) Foam Concentrate

### Compatibility

Respondol ATF 3-3 is suitable for use in combination with:

- Soft or hard, fresh, brackish or sea water.
- Expanded protein-based or synthetic foams for application to a fire in sequence or simultaneously.

### Environment

Respondol ATF 3-3 is PFOS free in accordance with EU Directive 2006/122/EC and amended Council Directive 76/769/EEC. Respondol ATF 3-3 is 100% biodegradable and is manufactured without any added fluorinated surfactants or fluorinated polymers.

### Storage

Respondol ATF 3-3 is exceptionally stable in long-term storage. A shelf-life of at least ten years can be expected if it is stored correctly.

### Disposal

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

### Product Quality

Respondol ATF 3-3 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	Light Yellow	
Specific gravity @ 20°C (68°F)	1.00 - 1.04	
pH @ 20°C (68°F)	7 - 8	
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)	-6 (21.2)
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	3
Expansion ratio	≥ 7:1
25% drainage time	hour/min/sec

### 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	20	215	223	1100
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	FN0521F0P	FN0521G0P	FN0521J0P	FN0521W0P	FN0521L8



**EN1568:2008**  
Parts 3 & 4

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

### 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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