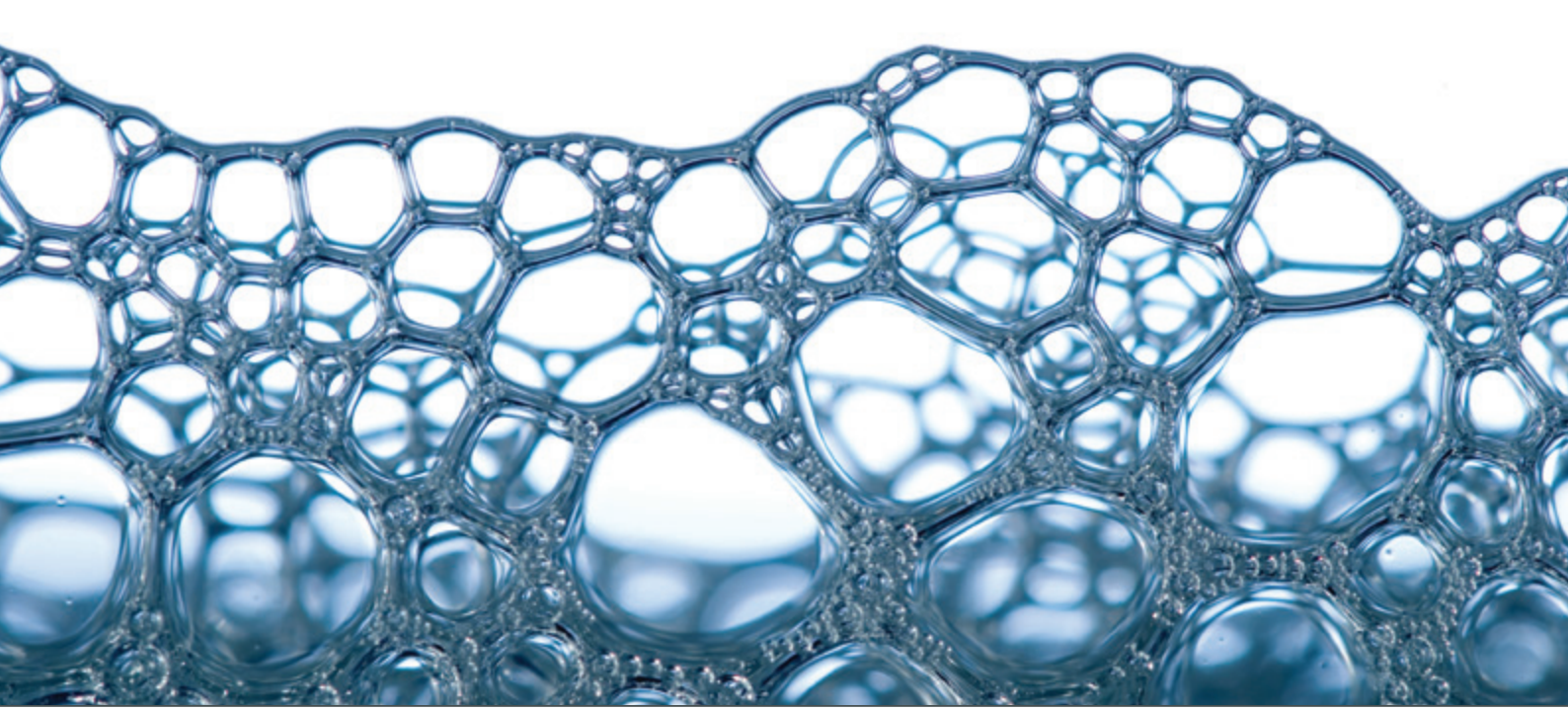
Angus Respondol FFF ARC 3x3
Fluorine Free Foam Concentrate



Angus Respondol ATF 3-3%
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.

ANGUS FIRE

Features
- 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.

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).

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Equipment
Respondol ATF 3-3 is intended for use at 3% (3 parts concentrate to 97 parts of water) on hydrocarbons and polar solvents. Respondol ATF 3-3 is readily proportioned using conventional foam proportioning equipment such as portable and fired (in-line) foam venturi proportioners, handline nozzles/branchpipes with pick-up tubes, balanced pressure variable flow proportioners, balanced pressure bladder tank proportioners, and around-the-pump proportioners.

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.

Can 25 litres

Drum 200 litres

Container 1000 litres

LISTED

EN1568:2008
Parts 3 & 4

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Typical Physico-Chemical Properties	
Appearance	Pale yellow
Specific ravity @ 20°C (68°F)	1.02 – 1.04
pH @ 20°C (68°F)	7 - 8
Viscosity cP	Non newtonian
Maximum continuous storage temperature	40°C (104°F)
Maximum intermittent storage temperature	60°C (140 °F)
Effect of freeze/thaw	No performance loss
Lowest use temperature	-5°C
Sediment as shipped	≤ 0.1% v/v
Sediment after ageing	≤ 0.5 % v/v

Typical Foam Properties:	
These vary depending on the performance characteristics of the foam. When tested in accordance with UK Defence Specification 42-41 it gives the following typical properties.	
Induction rate	3%
Expansion ratio	≥ 7:1
25% drainage time	≥ 30 min

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