

# AQUAFILM™ AF ICAO B

## PREMIUM FOAM CONCENTRATE AFFF



### DESCRIPTION

**AQUAFILM™ ICAO B range** is specifically designed to fight effectively all type of Class B fires (Hydrocarbon) being also very adequate to fight Class A fires.

AQUAFILM AF ICAO B is supplied as a 1%, 3%, or 5% foam concentrate. Its extraordinary AFFF properties give this product an effective and rapid knockdown of the fire when fighting non miscible flammable liquids. **This product is specially designed to fulfill and exceed aviation requirements.**

AQUAFILM AF ICAO B uses very specific fluorinated and hydrocarbon surfactants in order to allow a good formation of an aqueous film on the surface of most hydrocarbon fuels, suppressing vapour leaks and preventing its contact with the oxygen and providing an excellent sealing on hot surfaces. Its formulation allows a great oil repellence, fluidity and burnback resistance.

AQUAFILM AF ICAO B is a perfect tool to fight fires on storage tanks, bund, process areas, loading racks, power stations, airports or marine terminals amongst others.



AQUAFILM AF ICAO B is designed to be used with low expansion foam equipment (nozzles, monitors, foam chambers, etc.), non-aspirating devices (water spray nozzles and standard sprinklers) and medium expansion foam branches.

AQUAFILM AF ICAO B may be proportioned with standard equipment (in-line inductors, bladder tanks, balanced pressure systems, etc.) and special purpose ones for AFFF agents (e.g., Hydrofoam nozzles).

- The dilution rate of AQUAFILM AF-1 ICAO B is 1% in fresh or sea water (1% foam concentrate + 99% water)
- The dilution rate of AQUAFILM AF-3 ICAO B is 3% in fresh or sea water (3% foam concentrate + 97% water)
- The dilution rate of AQUAFILM AF-6 ICAO B is 6% in fresh or sea water (6% foam concentrate + 94% water)

AQUAFILM AF ICAO B is highly biodegradable and it is manufactured according to "C6 fluorocompounds" fulfilling the 2010/2015 EPA PFOA Stewardship Program.

### SPECIFICATIONS

TYPICAL PROPERTIES	1%	3%	6%
Specific gravity @ 20°C	1.03	1.02	1.02
pH @ 20°C	7.5-8.5	8.0-8.5	8.0-8.5
Viscosity, cone and plate, mPa.s @ 20°C	11	3.0	3.0
Freezing point, °C	<-10°C	<-5°C	<-5°C
Lowest temperature for use, °C	-10°C	-5°C	-5°C

### FOAM SOLUTION

Dilution rate	1%	3%	6%
Surface tens. at 20°C, mN/m (Demineralised water)	16.0	16	16.0
Interfacial tens. with cyclohexane at 20°C, mN/m	3.3	3.5	3.5
<b>Low Expansion Foam / Medium Expansion</b>			
Foam Expansion Index	8.5	8.5 / 100	8.5 / 100
25% Drainage Time, mins	3:00	3:30 / 3:00	3:30 / 3:00

**PERFORMANCE**

The foam achieves a very quick knock-down of fires, even with low application rates, and shows an excellent burn-back resistance. It fulfils the standard EN 1568-3:2008 for hydrocarbons. AQUAFILM AF-6 ICAO B has the certificate Class 1B.

STANDARD	EN-1568-3:2008			
Fuel	Heptane			
Application	Forceful		Gentle	
Dilution rate, %	1	6	1	6
Water	fresh	fresh	fresh	fresh
Extinction	0:59	1:27	1:25	1:22
Burnback 25%	<10:00	<10:00	16:15	16:20
Classification	1B			



**EN 1568:**  
2008 Part 3

ICAO B		
Kerosene		
Forceful		
1	3	6
fresh	fresh	fresh
0:46	0:52	0:44
16:45	14:28	14:10
pass level B		

**PACKAGING**

The product is supplied in 20 or 25 L PE prismatic containers, 200L PE cylindrical drums and 1.000 L IBC containers.

**STORAGE**

The concentrate should be stored at temperatures between -5° and +50°C, preferably in the original containers or in stainless steel or epoxy lined tanks. Avoid permanent contact with carbon steel, iron, copper alloys, aluminium, etc. Do not mix with other foam concentrates without a previous verification of compatibility.

**⚠ CAUTIONS**

Foams should not be used in contact with electrical equipment nor with chemical products that can react with water. It is recommended to avoid the contact of the foam concentrate with the skin. In case of eye splashes wash with plenty of water. In case of ingestion do not induce vomit, drink water and take medical advice.



**Solutions That Save.**

**FOR MORE INFORMATION**

Contact any of our worldwide Perimeter Solutions Fire Safety offices or visit:

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