

Project: Fire Extinguishing Media to

EN 1568-3 Specifications

Client: Dafo Fomtec AB

PO Box 683 135 26 Tyresö Sweden

Client's Order Number:

Office: Liverpool

Certificate Number: MCH 9902151/1

Date: 10 May 2001

Order Status: Complete

Inspection Dates

First: 20.08.99

Final: 10.09.99

This certificate is issued to Dafo Fomtec AB to certify that at their request, the undersigned Surveyor to this Society did select samples of FOMTEC AFFF 6% ICAO, for the purpose of confirming that the properties were within the technical specifications and were in accordance with EN 1568-3.

The necessary tests were witnessed by the Surveyor and the results obtained were all within the limits given in the manufacturers specification, and the requirements of EN 1568-3.

Tolerance to freezing and thawing (Annex E)

No stratification or non-homogeneity could be detected in the sample.

Sediment (Annex C)

Before ageing of the sample = <0.1%
After ageing of the sample = <0.1%
(24 hours at 60°C)

Viscosity at 20°C = 2.5 c.st

pH of the concentrate at 20° C = 7.5

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Surface Tension, Interfacial Tension and spreading coefficient (Annex F)

		Surface Tension Dynes/cm	Interfacial Tension Dynes/cm			nding ficient s/cm
Before conditioning		17.2	1.6		+6.2	
After conditioning	gat -					
-30°C for 24 hrs fo	llowed by 48hrs at 20)°C				
(four cycles)	Top Sample	17.2	1.5		+6.3	
	Bottom Sample	17.5	1.6		+5.9	
After conditioning	gat -					
60°C for 7 days fol	llowed by 2 days at 2	0°C				
	Top Sample	17.5	1.5		+6.0	
	Bottom Sample	17.4	1.6		+6.0	
	rainage (Annex G)					
Before conditionir	ng of the sample		Fresh	Sea		
	Expansion =		8.0	7.5		
	25% Drainage time	=	3'20"	3'35"		
					100	
		Fresh		- 44	Sea	
After conditioning		Top	Bottom	Тор		Bottom
in accordance with				C.B.		7.0
	nnsion =	8.2	8.3	7.7		7.8
25%	Drainage time =	3'25"	3.35"	3'24"		3'32"

Fire Tests (Annex H)

A) Forceful Application in accordance with EN 1568-3

Fire tests carried out in accordance with Annex H1 and H3 using:-

Fresh water and Sea water Preburn time

60 seconds 180 seconds Foam application Wait after foam application 300 seconds 144B (4.5m²) Fire tray

Commercial Heptane on water bed Fuel

	Fresh Water		Sea Water	
90% Control	40"	43"	47"	
99% Control	70"	79"	68"	
100% Extinction	175"	175"	110"	
25% Burnback time	N/A	N/A	N/A	

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Air Temp	16°C	16°C	15.℃
Water Temp	15°C	15°C	15°C
Fuel Temp	15°C	15°C	15°C
Foam Temp	17°C	17°C	17°C
Wind Speed (m/sec.)	<1.0	<1.0	<1.0

B) Gentle application in accordance with EN 1568-3

Fire Tests carried out in accordance with Annex H1 and H2 using:-

Fresh water and Sea water

Preburn time 60 seconds
Foam application 300 seconds
Wait after foam application 300 seconds
Fire tray 144B (4.52m²)

Fuel Commercial Heptane on water bed

	Fresh Water	Sea Water	
90% Control	98" 78"	55"	
99% Control	145" 100"	90"	
100% Extinction	190" 173"	167"	
25% Burnback time	11'05" 11'45"	15′04″	
Air Temp	16°C 16°C	16°C	
Water Temp	16°C 16°C	16°C	
Fuel Temp	17°C 17°C	18°C	
Foam Temp	16°C 16°C	16°C	
Wind Speed (m/sec.)	<1.0 <1.0	<1.0	

From the above test results it is confirmed that FOMTEC AFFF 6% ICAO is a film forming foam concentrate suitable for use at 6% concentration with potable and sea water. FOMTEC AFFF 6% ICAO has tolerance to freezing and thawing (Annex E). The product is suitable for storage above -30°C. The fire extinguishing performance class is 1 and the burnback resistance level is C using potable water and B using sea

Performance level achieved: Extinguishment class 1 Burnback resistance level C

M. Firth

Senior Surveyor

water.