

Project: Fire Extinguishing Media to EN 1568-3  
Specifications

Client: Dafo Fomtec AB

Office: Liverpool

Clients Order Number:

Date: 20 June 2001

Order Status: Complete

Inspection Dates

First: 01 June 2001

Final: 15 June 2001

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% A manufactured 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 manufacturer's 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 = 2.0cSt

pH of the concentrate at 20°C = 7.8



**Surface Tension, Interface Tension and spreading coefficient (Annex F)**

	<u>Surface Tension</u> Dynes / cm	<u>Interface Tension</u> Dynes/cm	<u>Spreading Coefficient</u> Dynes / cm
Before conditioning	18.4	1.2	+5.4
After conditioning at - -30°C for 24 hrs followed by 48 hrs at 20°C (four cycles)			
Top Sample	18.6	1.4	+5.0
Bottom Sample	18.5	1.0	+5.6
After conditioning at - 60°C for 7 days followed by 2 days at 20°C			
Top Sample	18.5	1.2	+5.3
Bottom Sample	18.4	1.0	+5.6

**Expansion and Drainage (Annex G)**

	Fresh		Sea	
Before conditioning of the sample				
Expansion	7.9		7.6	
25% Drainage time =	2'28"		2'47"	
After conditioning of the sample in accordance with Annex E				
Expansion =	Top	Bottom	Top	Bottom
25% Drainage time =	7.6	7.8	7.4	7.7
	2'20"	2'33"	2'35"	2'50"

**Fire Tests (Annex H)**

**Gentle 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
Foam application	300seconds
Wait after foam application	300 seconds
Fire tray	144B (4.52m <sup>2</sup> )
Fuel	Commercial Heptane on water bed

	Fresh Water		Sea Water
90% Control	98"	90"	48"
99% Control	180"	120"	120"
100% Extinction	286"	132"	223"
25% Burnback time	9'06"	8'20"	13'56"



Air Temp	15.0°C	15.0°C	12.0°C
Water Temp	16.0°C	16.0°C	16.0°C
Fuel Temp	14.0°C	14.0°C	14.0°C
Foam Temp	16.0°C	16.0°C	16.0°C
Wind Speed (m/sec)	<1.0	1.0	1.0

From the above test results it is confirmed that FOMTEC AFFF 6% A is a film forming foam concentrate suitable for use at 6% concentration with fresh and sea water. FOMTEC AFFF 6%A has a tolerance to freezing and thawing (Annex E). The product is suitable for storage above -30°C. The fire extinguishing performance class is 3 and the burnback resistance level is D using fresh water and C using sea water.

Performance level achieved:

Extinguishment class 3 with fresh and sea water

Burnback resistance level D with fresh water and C with sea water.

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