



Project: Fire Extinguishing Media to EN 1558-3 & EN 1568-4 Specifications

Client: Dafo Fomtec AB
Tyreso,
Sweden

Office: Liverpool

Clients Order Number: -

Date: 30 June 2005

Order Status: Complete

Inspection Dates

First: 16 May 2005

Final: 22 June 2005

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 FFFP/ARC 3x3 (Newtonian), for the purpose of confirming that the properties were within the technical specifications and were in accordance with EN 1568-3 and EN 1568-4.

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 and EN 1568-4

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 = 13.7 m.Pa.s (Brookfield)

pH of the concentrate at 20 C = 7.3

Surface Tension, Interfacial Tension and Spreading Coefficient (Annex F)

	Surface Tension Dynes/cm	Interfacial Tension Dynes/cm	Spreading Coefficient Dynes/cm
Before conditioning:	18.5	6.2	+0.3
After Conditioning at -30 C for 24 hours followed by 48 hours at 20 C (four cycles)			
Top Sample:	18.0	6.6	+0.4
Bottom Sample:	18.0	6.8	+0.2
After Conditioning at 60 C for 7 days followed by 2 days at 20 °C			
Top Sample:	18.0	6.8	+0.2
Bottom Sample:	18.2	6.6	+0.2

Expansion and Drainage (Annex G)

	Using Fresh Water		Using Sea Water	
Before conditioning of the sample				
Expansion at 3%:	5.70		5.61	
25% Drainage Time:	1'41"		1'57"	
50% Drainage Time:	3'54"		4'18"	
After conditioning of the sample (Annex E)	Top	Bottom	Top	Bottom
Expansion at 3%:	6.12	6.00	6.00	5.95
25% Drainage Time:	2'00"	2'02"	2'00"	2'00"
50% Drainage Time:	4'09"	4'10"	4'20"	4'21"

Fire Tests (Annex H)

A) Application (Forceful) 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	180 seconds
Wait after foam application	300 seconds
Fire Tray	144B (4.54 m ²)
Fuel	Commercial Heptane on water bed
Foam Concentration	3%

	Fresh Water	Sea Water	Sea Water
90% Control	47"	47"	60"
99% Control	60"	66"	75"
100% Extinction	110"	121"	129"
25% Burnback Time	10'15"	16'10"	15'35"
Air Temp (°C)	20	20	20
Water Temp (°C)	16.5	17	16.5
Fuel Temp (°C)	19	20	19
Foam Temp(°C)	16.5	16.5	17
Wind Speed (m/sec)	< 2.0	< 2.0	< 2.0