



TECHEUROPA INSPECTION & CERTIFICATIONS PRIVATE LIMITED

CERTIFICATE No: EN.IN.053.22-07/23

CERTIFICATE OF COMPLIANCE

MANUFACTURER	:	INTEGRATED FIRE PROTECTION PVT. LTD
INSPECTION SITE	:	RAJBARIPARA, JALPAIGURI - 735101, WEST BENGAL
PRODUCT	:	IFP-FP-3C6 [FLUOROPROTEIN 3%]
APPLICABLE STANDARD	:	EN 1568-3
DATE OF ISSUE	:	22 JUNE 2023
DATE OF EXPIRY	:	22 JUNE 2026 (SUBJECTED TO SUCCESSFUL ANNUAL SURVEILLANCE AUDIT)

This certificate is issued to **INTEGRATED FIRE PROTECTION PVT. LTD.,** to certify that at their request, the undersigned surveyor to this company select sample of **IFP-FP-3C6 [FLUOROPROTEIN 3%]** 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 specifications, 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:	Nil
After ageing of the sample: (24 hours at 60°C)	Nil

Viscosity (Annex D)

At 20°C:	8.03 cst
At 10°C:	11.40 cst
At 0°C:	13.10 cst

pH of the concentrate at 20°C:	6.99
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Surface Tension, Interfacial Tension and spreading coefficient (Annex F): not applicable

Expansion and Drainage (Annex G): Expansion and Drainage (Annex G):

Before conditioning of the sample:	Fresh Water	Sea Water
Expansion:	8.04	8.12
25% drainage time:	2 min 37 sec	2 min 33 sec
50% drainage time:	4 min 16 sec	4 min 27 sec

**After conditioning of the sample:
In accordance with Annex E**

TOP LAYER

Expansion:	7.45	7.85
25% drainage time	2 min 85 sec	3 min 07 sec
50 % drainage time	4 min 35 sec	4 min 48 sec



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BOTTOM LAYER

Expansion:	7.51	8
25 % drainage	2 min 53 sec	2 min 59 sec
50% drainage time	4 min 45 sec	4 min 54 sec

Fire Test (Annex H)

A) Forceful Application in accordance with EN 1568-3(annex H1 & H3) :

With Fresh water and sea water:

Pre-burn time:	60 sec	
Foam application:	240 sec	
Wait after foam application:	300 sec	
Fire tray:	4.5 m ²	
Fuel:	commercial n-Heptane	
	Fresh Water	Sea Water
90% Control:	77 sec	76 sec
99% Control:	197 sec	116 sec
100% Extinction:	233 sec	158 sec
25% Burn back time:	8 min 45 sec	8 min 45 sec
Air Temp:	22° C	22° C
Fuel Temp:	18° C	18° C
Wind Speed (m/sec)	0.5	Nil

B) Gentle application in accordance with EN-1568-3(Annex H1 and H2) using :-

With Fresh water and sea water:

Pre-burn time:	60 sec	
Foam application:	300 sec	
Wait after foam application:	300 sec	
Fire tray:	4.5 m ²	
Fuel:	commercial n-Heptane	
	Fresh Water	Sea Water
90% Control:	73 sec	61 sec
99% Control:	105 sec	138 sec
100% Extinction:	111 sec	142 sec
25% Burn back time:	> 15 min	> 15 min
Air Temp:	21° C	20° C
Fuel Temp:	18° C	18° C
Wind Speed (m/sec)	0.9	0.7

From the above test result it is confirmed that IFP-FP-3C6 [FLUOROPROTEIN 3%] is a foam concentrate suitable for use at 3% concentration with potable and sea water. IFP-FP-3C6 [FLUOROPROTEIN 3%] has tolerance to freezing and thawing (Annex E). The product can withstand temp upto -30°C.

The Fire extinguishing performance

WITH FRESH WATER: Class II, Burn back resistance level B.
WITH SEA WATER: Class I, Burn back resistance level B.

Amiya Sagar
Surveyor

