

Firefighting Foam

Quick, Easy, Accurate & Independent

Introduction

NFPA states and firefighting professionals agree that foam inventory should be tested annually. Testing is crucial to maintaining the highest possible level of emergency preparedness.

With Dyne's annual testing reminder service, you now have an easy, convenient way to ensure that your foam will be ready in case disaster strikes.

Laboratory

Our laboratory uses industry standards to test your foam to make sure it will perform effectively in a fire situation. We can test the foam concentrate in its raw, pre-diluted state or we can test a foam solution where the concentrate is already mixed with water.

Certifications

Dyne Fire Protection Labs has been certified by the International Standards Organization ISO 9001 "Standards for Quality Management System".

Standards

- NFPA 11
- NFPA 18
- NFPA 25
- IMO 1312
- IMO 670
- USCG - 46 CFR



Dyne Fire Protection Labs offers a wide range of tests for your fire protection and safety compliance needs:

- Low Expansion
- High Expansion
- Marine Compliance
- Foam Solution
- Bladder Water

If you are looking to stay in compliance with any of the above tests, a representative sample must be taken. We have articles in our article archives online regarding sampling. If you are not comfortable taking samples, there are many well established foam system service representatives that can assist you with the process. Contact Dyne for more information.



Free 4-bottle sample kit
(250 ml)
2-bottle also available

Free IMO sample kit
(500 ml)

National Fire Protection Association (NFPA)	Types of Samples	Physical Property Tests	Performance Property Tests
NFPA 11 – Standard for Low-, Medium and High-Expansion Foam	Foam Concentrate - Aqueous Film Forming Foam (AFFF) - Alcohol Resistant Foam (AR-AFFF) - Protein/Fluoroprotein - Film Forming Fluoroprotein (FFFP, AR-FFFP) - High Expansion	- Appearance - Refractive Index - Density - pH - Viscosity¹	Sample mixed with fresh water - Expansion - Drain Time - Film Confirmation²
	Foam Solution Performance testing ONLY Foam and water mixture stored in solution form	- Appearance - Refractive Index - Density - pH	Sample tested with no additional water dilution - Expansion - Film Confirmation²
	Foam Solution Proportioning testing ONLY Made from concentrates listed above already mixed with water*	- Appearance - Refractive Index - Density - pH	Sample tested with no additional water dilution Percent Concentration
	Foam Solution Performance & Proportioning testing Made from concentrates listed above already mixed with water*	- Appearance - Refractive Index - Density - pH	Sample tested with no additional water dilution - Expansion - Film Confirmation² - Percent Concentration
*Customer must provide 250 ml of concentrate and water in addition to sample.			
NFPA 18 – Standard on Wetting Agents	Foam Concentrate - Wetting Agents - Class A Foams	- Appearance - Refractive Index - Density	Sample mixed with fresh water - pH - Surface Tension - Expansion (on select products only) - Drain Time (on select products only)
International Maritime Organization (IMO)			
MSC.1/Circ.1312 and USCG CFR Title 46	Foam Concentrate - Aqueous Film Forming Foam (AFFF) - Alcohol Resistant Foam (AR-AFFF) - Protein/Fluoroprotein - Film Forming Fluoroprotein (FFFP, AR-FFFP) - High Expansion	- Appearance - Refractive Index - Density - Viscosity¹	Sample mixed with sea water - pH % Sediment - Sediment Dispersion - Expansion - Drain Time - Film Confirmation² - Estimated % Dilution - Acetone (AR protein based foams only) - Burnback (AR protein based foams only)

¹ Alcohol resistant foams only ² Film forming foams only such as aqueous film forming foam and film forming fluoroprotein foam. Film formation and film sealability or surface tension, interfacial tension and spreading coefficient used to determine film formation.