Fire Fighting Foam Testing Services

DYNE COMPLIANCE TESTING

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Service Information

Introduction

Dyne Technologies is an independent compliance testing laboratory which has been providing the fire fighting industry with foam testing services since 1999. Our mission is two-fold – to provide quality, accurate and precise test results and to do so using a system that makes it easy for our customers.

Turn-key System

Our goal at Dyne is to provide you with a worry-free system for meeting your fire fighting foam testing requirements. Our system includes:

- Free test kits with postage-paid-shipping labels, for standard NFPA testing
- Results guaranteed in one week or less
- Results archived and available via a phone call or through our secure web site
- Tags to attach to the tank stating type of foam and date tested
- 24 hour turn-around available upon request
- A reminder when it is time to test again
- Technical experts to answer your foam questions

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.

The following is a list of specifications used to evaluate fire fighting foam:

- NFPA 11 Standard for Low-, Medium-, and High-Expansion Foam
- NFPA 25 Standard for the Inspection, Testing and Maintenance of Water–Based Fire Protection Systems
- International Maritime Organization (IMO) Guidelines for the Performance and Testing Criteria, and Surveys of Low-Expansion Foam Concentrates for Fixed Fire-Extinguishing Systems
- NFPA 18 Standard on Wetting Agents
- Military Specification Fire Extinguishing Agent, Aqueous Film-Forming Foam (AFFF) Liquid Concentrate, for Fresh and Sea Water MIL-24385F

"At least annually, an inspection shall be made of foam concentrate and their tanks or storage containers for evidence of excessive sludging or deterioration. Samples of concentrates shall be sent to the manufacturer or qualified laboratory for quality condition testing."

- NFPA 11 Section on Foam Concentrate Inspection

NFPA® MEMBER

ISO 9001:2000 SGS

Certifications

Dyne Technologies has been certified as meeting the requirements of the International Standards Organization ISO 9001:2008 Standards for Quality Management System—Certificate US04/33839.

Contact

To order your free fire fighting foam testing kits, please call (800) 632-2304 or send us an electronic mail message at lab@dyneusa.com.

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Foam Test	Specification	Physical Property Tests	Performance Property Tests	Kits
TEST 1 NFPA 11 – Customer must provide 500-mL of foam concentrate	National Fire Protection Association (NFPA) 11 — Standard for Low-, Medium- and High-Expansion Foam	SAMPLE AS RECEIVED Appearance Refractive Index Density Viscosity* pH	SAMPLE MIXED WITH FRESH WATER Low Expansion Foam Expansion Drain Time Film Formation** Film Sealability** High Expansion Foam Expansion (Using Hi-Ex Generator)	NFPA KIT No Charge for Kits or Shipping Postage-Paid Reply Label (U.S. Only) 500-mL Sample Jars
TEST 2 IMO – Customer must provide 2-liters of foam concentrate	International Maritime Organization (IMO) — Guidelines for the Performance and Testing Criteria, and Surveys of Low-Expansion Foam Concentrates for Fixed Fire-Extinguishing Systems	SAMPLE AS RECEIVED Appearance Refractive Index Density Viscosity*	SAMPLE AS RECEIVED pH Sediment SAMPLE MIXED WITH SEA WATER Expansion Drain Time Film Formation** Film Sealability**	IMO KIT Charge Per Kit Plus Shipping Customer Pays to Ship Kit 2-liter Sample Jar Required
TEST 3 PREMIX – Customer must provide 500-mL of the foam concentrate, system water and mixed foam solution	National Fire Protection Association (NFPA) 11 — Standard for Low-, Medium- and High-Expansion Foam	SAMPLE AS RECEIVED Appearance Refractive Index Density pH	SAMPLE TESTED WITH NO ADDITIONAL WATER DILUTION Expansion Film Formation** Film Sealability** Percent Concentration Estimated Using Conductivity	NFPA KIT No Charge for Kits or Shipping Postage-Paid Reply Label (U.S. Only) 500-mL Sample Jars
TEST 4 WATER – Typically done on water from between the shell and bladder in a bladder tank system	Not Applicable	SAMPLE AS RECEIVED Appearance Refractive Index Density pH Estimation of % Foam Concentrate in the Water	NO PERFORMANCE TESTING	NFPA KIT No Charge for Kits or Shipping Postage-Paid Reply Label (U.S. Only) 500-mL Sample Jars
TEST 5 NFPA 18 – Customer must provide 500-mL of foam concentrate	National Fire Protection Association (NFPA) 18 — Standard on Wetting Agents	SAMPLE AS RECEIVED Appearance Refractive Index Density pH	SAMPLE MIXED WITH FRESH WATER Expansion Drain Time Surface Tension	NFPA KIT No Charge for Kits or Shipping Postage-Paid Reply Label (U.S. Only) 500-mL Sample Jars

* Alcohol Resistant Foams Only

** Film Forming Foams Only such as Aqueous Film Forming Foam and Film Forming Fluoroprotein Foam