☐ Fluoroprotein

☐ High Expansion

☐ AR-Fluoroprotein

□ Non-Fluorinated

☐ Protein

☐ AR-FFFP

☐ Other:_

Lot Number:

Purchase Date:

☐ Concentrate

☐ System Water

*additional sample required

☐ Shell Water

☐ Premix (foam/water mixture for standard quality)*

☐ Premix (foam/water mixture for proportioning)

TYCO FIRE PROTECTION PRODUCTS FOAM	TEST LAB—REQUE	ST FOR	ANALYSI	S				
Requested By:								
Company:				SE ORDER NO		National Fire		
Address:				ard payments, please phone number:	provide contact	Equipment Ltd.		
City: State: Zip:				me:		40 Edilcan Drive Concord, ON., L4K 3S6		
Vessel or Facility:			Phone num	ber:		905-761-6355 ext. 6 concordsales@nationalfire.com		
Contact Name:			□ Rush	Analysis: Only avail	able for orders	www.nationalfire.com		
Email:				up to five (5) samples.	Rush orders are an			
Phone: Make sure your address and email are clearly written. Results will be sent via email to the above email address.			of 2-3 work	harge and have a typi ing days after sample /IMO orders require ar	is received by the	Total Samples in This Request:		
			day for con	ditioning requirements		Box: of		
nternational requests require Safety Data Sheet with TS	CA information or a signe	d TSCA c	ompliance fo	rm.				
	Sample Type	Conc	entration	Sample Information		TESTING/REPORT		
Sample Number:	□ AFFF	□ 1%		Sample Point	Storage Container	Testing Requested		
Manufacturer:	☐ AR-AFFF	□ 2%		□ Тор	☐ Atmospheric Tank	☐ Standard Quality		
Product Name:	☐ FFFP			☐ Middle	☐ Bladder Tank	☐ Proportioning		
_ot Number:	☐ Fluoroprotein	□ 3%		☐ Bottom	☐ Foam Cart	☐ Marine/IMO		

Product Name:	□ FFFP	□ 2.75%	☐ Middle	☐ Bladder Tank	☐ Proportioning
Manufacturer:	☐ AR-AFFF	□ 2%	□ Тор	☐ Atmospheric Tank	☐ Standard Quality
Sample Number:	□ AFFF	□ 1%	Sample Point	Storage Container	Testing Requested
	Sample Type	Concentration	Sample Information		TESTING/REPORT
*additional sample required		Premix %:			☐ Acetone
☐ Shell Water	☐ Other:	☐ Other:			Heptane
☐ System Water	☐ Non-Fluorinated	□ 3x6%	Storage Location:		(see back)
☐ Premix (foam/water mixture for proportioning)	☐ AR-Fluoroprotein	□ 3x3%		☐ Other	Fuel for AR-AFFF or NFF Lab Scale Fire Test
☐ Premix (foam/water mixture for standard quality)*	☐ AR-FFFP	□ 1x3%		☐ Pail	☐ Add Lab Scale Fire Test (extra charge)
□ Concentrate	☐ High Expansion	□ 1x1%	☐ Mixture	☐ Drum	Add Chemical Stability (extra charge)
Purchase Date:	☐ Protein	□ 6%	☐ Circulated	☐ Tote	☐ Shell Water
Lot Number:	☐ Fluoroprotein	□ 3%	☐ Bottom	☐ Foam Cart	☐ Marine/IMO
Product Name:	☐ FFFP	□ 2.75%	☐ Middle	☐ Bladder Tank	☐ Proportioning
Manufacturer:	☐ AR-AFFF	□ 2%	⊔ тор	☐ Atmospheric rank	☐ Standard Quality

□ 3%

□ 6%

□ 1x1%

□ 1x3%

□ 3x3%

□ 3x6%

☐ Other:

Premix %:

☐ Bottom

☐ Mixture

☐ Circulated

Storage Location:

☐ Foam Cart

☐ Tote

☐ Drum

☐ Other

☐ Pail

NOTICE:

Tyco Fire Protection Products Foam Test Lab does not accept or test foam products manufactured with PFOS. Any samples of products known to be manufactured with PFOS or unknown samples will be returned without analysis. Note: Due to the volume of samples received, ANY SAMPLE WITH INCOMPLETE INFORMATION WILL NOT BE ANALYZED. It is the sender's responsibility to provide complete information and samples of sufficient quantity.

☐ Marine/IMO

☐ Shell Water

(see back)

☐ Heptane

☐ Acetone

☐ Add Chemical Stability (extra charge)

□ Add Lab Scale Fire Test (extra charge)

Fuel for AR-AFFF or NFF Lab Scale Fire Test

TYCO FIRE PROTECTION PRODUCTS FOAM TEST LAB—General Foam Sampling Information

General Sampling:

- Samples need to be representative of the contents in the storage tank or container.
- Circulate or mix tanks or containers if possible. Tanks and sample containers
 containing mineral oil should not be circulated or mixed. Ensure that samples are
 taken below the mineral oil as mineral oil is known to adversely affect foam test
 results.
- Allow sufficient concentrate to flush through any piping before collecting a sample.
 Taking a representative sample can also be accomplished by sampling multiple locations inside the container. Please note the sample location.
- Tyco offers the Tyco Fire Protection Products Foam Test Lab Kit (Part No 710808) for ease
 of sampling and these are the preferred containers for sending in material for testing.
 There may be a delay in testing samples sent in other containers if damaged
 during shipment. To obtain a free Sampling Kit, Contact Customer Service at
 1-800-267-8508 ext 6.
- Proportioning analysis requires three (3) samples:
 - A sample of mixed foam-water solution from the discharge device or test connection.
 The system should be run long enough to ensure proper mixing and that the sample is repre-sentative of an actual discharge.
 - A sample of the foam concentrate from the system.
 - A sample of system water. Proper calibration and analysis require the water sample to be representative of the water used to make the foam-water solution.
- Label samples and complete all required sections of the Request for Analysis form. Provide a Safety Data Sheet (SDS) for all samples.
- Be sure all contact information (name, address, email, phone, etc.) is clearly written. Results will only be sent by e-mail unless otherwise indicated.
- The product viability recommendations can only be based upon analysis results of the samples received. Hence, no statements of quality are intended to include any product other than that which is received by Tyco Fire Protection Products for testing. The Foam Test Lab makes no express or implied warranty of product viability or implied warranty of fitness for a particular purpose. Analysis results will be sent upon completion of testing.

Minimum sample volume needed for testing:

Concentrate: 500 mL (~16 oz)

Premix (foam/water mix): 4 Liters (1 gallon) Proportioned sample: 100 mL (~4 oz)

System water for proportioning: 1 liter (~ 32 oz)

Charges:

900.	
Standard Quality without Lab Fire	Call for pricing
Standard Quality with Lab Fire	Call for pricing
Proportioning Calibration Curve	Call for pricing
Added Proportioning Sample	Call for pricing
Standard Quality High Expansion	Call for pricing
Added Drain Time	Call for pricing
Shell Water Testing	Call for pricing
onon tracer rooming	Can for prioring

Abbreviations/Definitions:

AFFF Aqueous Film-Forming Foam

AFFF products have only one concentration or proportioning percentage (e.g., 3%) and are for use on hydrocarbon fuels

(e.g., Heptane) only.

AR-AFFF Alcohol-Resistant Aqueous Film-Forming Foam

AR-AFFF products typically have two concentrations or

proportioning percentages (e.g., 1%x3%). The first is for use on hydrocarbon fuels (e.g., Heptane), the second is for use on polar

solvent fuels (e.g., Acetone) . Film-Forming Fluoroprotein

FFFP Film-Forming Fluoroprotein

FP-AR Fluoroprotein Alcohol-Resistant
IMO International Maritime Organization

Hi-Ex High-Expansion

PREMIX Solution of water and foam concentrate proportioned at the correct use level. (e.g. 1% Foam with 99% water by volume).

NFF Non-Fluorinated Foam

Testing Overview:

- See the chart below for testing that is included in the standard cost of foam analysis by foam agent type.
- Foam quality includes expansion ratio and drain time. High expansion drain time available at an additional cost.
- Standard Quality Testing is conducted using tap (potable) water. Low-expansion foam quality is tested according to NFPA 11 Annex D (2016). High-expansion foam quality is tested according to NFPA 11 Annex G (2016).
- Marine/IMO Testing is conducted using synthetic seawater. Low-expansion foam quality is tested according to IMO MSC.1/Circ.1312. High-expansion foam quality is tested according to NFPA 11 Annex G (2016).
- Special requests and fire testing (UL, IMO Small Scale, etc.) are available. Contact
 Tyco Fire Protection Products Foam Test Lab for pricing, availability, and sample
 size requirements before submitting request.

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	Inclu	ided in Stai	ndard Qual	Marine/IMO Testing	ole at an nal Cost				
Foam Type	Refractive Index	Density	рН	Film Formation	Viscosity	Foam Quality	Sediment	Lab Scale Fire	Chemical Stability
AFFF	X	Х	X	X		X	X	Х	
AR-AFFF	X	Χ	Х	X	X	X	X	X	
FFFP	X	Х	Х	X		Х	X	Х	
Protein or FP	Х	Х	Х			Х	X	Х	
FP-AR	Х	Х	Х		Х	Х	Х	Х	Х
Hi-Ex	Х	Х	Х			Х	Х		
NFF	Х	Х	Х		Х	Х		Х	