

## NFFF Q&A

### **OUR PRODUCT**

#### **1. What are the different products we offer?**

- Fluorine Free Fire Foam (NFFF)
- Training Foam (Used to train fire fighters)
- Wetting Agent (Used as a pre-treatment to retard fire)
- 1% and Specific Saltwater formula coming soon

\*\*\*\*\*All of these can be sold as concentrate or as a pre-mixed product.

#### **2. Is your foam non-toxic?**

YES, our foam is nontoxic and noncarcinogenic. It is marine and wildlife safe. Our foam is made from ingredients that are Food and Pharmaceutical Grade. You can ingest it (though we do not recommend it) and you will only get sick.

#### **3. What is the clean-up process for your foam?**

Our foam is fully biodegradable in 5 days. No clean-up is required outside of fire damage and chemical spill.

#### **4. What is the shelf life of your foam?**

There is no shelf life, you are only restricted to the shelf life of the container the foam is stored in.

### **PRODUCT PERFORMANCE**

#### **1. How long will our foam stay on a surface for cooling after a fire?**

The duration of the foam blanket remaining will depend upon atmospheric conditions during the time of the fire. On a normal Humid and Hot day in south Texas our foam blanket remained for over 2 hours on the testing tank at Beaumont, TX.

#### **2. Freezing point?**

The freezing point is 26 degrees Fahrenheit.

## **PRODUCT COMPATIBILITY**

### **1. Is our foam compatible with a high expansion foam generator?**

Yes, our foam is compatible with a high expansion foam generator. The expansion rate will vary from system to system based upon the characteristics of each system.

### **2. Is equipment recalibration required?**

Calibration may be required based upon the characteristics of the foam generated.

### **3. Is there any equipment our foam does not work with?**

Our foam is designed to work with any system, but the quality of foam will vary based upon the system used and the operating pressure used during foam generation. You cannot get AFFF 100% out of the tanks, hoses, valves, or nozzles. We recommend you buy new equipment. We sell these items as well; we are a one stop solution!

## **CERTIFICATIONS AND TESTING**

### **1. Drain Time testing?**

The drain time is > 40 minutes.

### **2. Subsurface Injection testing?**

Our product has not been formally tested for volume of foam generated is less than subsurface injection. We have seen that when subsurface injected the foam generated does move to the top of the surface and does extinguish the fire, but the foam volume is less than a surface application.

### **3. Polyvalent testing?**

Our foam has been tested on E85 fuel and performs well at a 3% concentration. We find the best concentration for a polyvalent fire is a 6% concentration to ensure LeL levels are controlled to prevent backburn.

### **4. Backburn test?**

We conducted backburn testing during the UL 162 level B testing and the 3% foam performed exceptionally well and closed in the broken foam surface and extinguished the fire.

## **5. What testing have we completed?**

- We have completed the UL 162 Level A & B testing.
- We have also conducted 3<sup>rd</sup> party toxicity testing and biodegradable testing.
- Without question, we have passed the test for Fire Fighting Foam Class A & Class B (including Heptane & Jet A1 fuels).

## **OUR SERVICES**

### **1. Fire-foam training services available**

We do offer training services from Basic to Advanced Industrial Firefighting through our Fire Chief and his company. Please reach out so we can make an introduction!

### **2. AFFF removal and disposal services are available**

As deadlines approach, we advise you to prepare for AFFF removal services to become increasingly more expensive and difficult to secure reasonable pickup dates. Vitelli has multiple subcontractors involved in our AFFF removal services, guarantying your company access to more than just one schedule. We are a one stop solution for AFFF removal and replacement with our NFFF.

## **LEGAL MATTERS AND THE EPA**

### **1. What is the DoD doing regarding AFFF (what they do will be the guidelines for many States & Municipalities since they ride the coattails of the Fed Govt):**

- Mandated NO PURCHASE OF AFFF as of Oct 2023
- Mandated NO USE of AFFF as of Oct. 2024. \*\*So, if they have left over AFFF – it can be used in that 1-year gap. They don't want it used due to LAWSUITS over toxic AFFF. Most places will opt to dispose of the toxic AFFF and buy the non-toxic to avoid lawsuits and FINES by the EPA.

### **2. What is the EPA doing regarding AFFF:**

- Fed Govt charged EPA division to handle the PFOS/PFAS situation as described in the CLEAN WATER ACT. (This is an Act that has a zillion revisions and updates over the years since the early 1970s).
- There are remediation guidelines for PFOS/PFAS >> to date, this is a fluid set of course correction – ever changing. Getting rid of the toxic product sooner than later will most likely result in cost savings. As the EPA gets more strict and intolerant, the cost to dispose increases.

- There ARE containment guidelines >> whoever possesses the OLD AFFF must ensure complete containment and leakage prevention.
- The EPA is entertaining a “whistle blower” section to PFOS/PFAS remediation.

### **3. What are the current laws and penalties?**

All of this comes with scrutiny.... and BIG FINES! Public perception and publicly held firms will receive “bad press” and investor pressure.

## **SHIPPING AND MANUFACTURING**

### **1. What is your production timeline?**

To ensure quality control, the product takes a minimum of 4 days.

### **2. Has your facility ever manufactured AFFF**

Our foam is produced in a virgin manufacturing plant – no PFOS/PFAS has been used in our facility. There is zero risk of contamination. Many companies now making NFFF are using the same facility where they made AFFF. You cannot get AFFF 100% out of the tanks, hoses, valves, or nozzles. So, it’s best to BUY from a virgin facility – we check this box.

### **3. Shipping methods?**

Domestic and International available via truck, rail, and ship.

## **For any additional questions please reach out to us:**

- **Wayne Leitch, Director- Supply Chain**  
(936) 259-3632  
[w.leitch@vitelli-industrial.com](mailto:w.leitch@vitelli-industrial.com)
- **Brannon Wooden, Head of Sales & Business Development**  
(713) 907-7862  
[b.wooden@vitelli-industrial.com](mailto:b.wooden@vitelli-industrial.com)
- **Alexandra Bourgeois, VP- Operations**  
(713) 725-1097  
[A.bourgeois@vitelli-industrial.com](mailto:A.bourgeois@vitelli-industrial.com)