

# Aquafighter® FAQs

## What size Aquafighter® do I need?

This depends on the largest opening and size of your tank.

1. For tanks with 4cm to 10cm openings you will need a Slim Aquafighter.
2. For tanks with 10cm to 30cm openings you will use an Anaconda Aquafighter.
3. For tanks with greater than 30cm openings you will use either a Canvas Aquafighter or an Industrial Aquafighter.

## How can you say that Aquafighter® will polish diesel?

Aquafighter will literally remove all types of water; including bound, emulsified, suspended and free water; from your fuel directly in the tank. Expensive fuel polishing machines and fuel polishing services must first remove the fuel from the tank to clean it and even then they can not remove water at 100% efficiency to under 200ppm. Aquafighter removes water in the tank with **100% efficiency to less than 75ppm**. We agree, pretty amazing!

## What proof do you have that Aquafighter® is this revolutionary?

For the first 2 years of Aquafighter's existence it was used exclusively with a European fuel company (one of the biggest fuel companies in the world). In this time, Aquafighter was used to polish more than 1.7 million liters of "water-logged" fuel that would normally cost more than .60 USD per liter to dispose of. Rather than dispose of this fuel, Aquafighter saved 90% of this fuel and it was returned to the fuel station to be sold at retail price. For every delivery of fuel back to the station there was a laboratory test performed to determine water content, small particle content and fuel quality. In more than 100 of these tests over this two year period, **Aquafighter provided perfect fuel at less than 75ppm 100% of the time.**



In addition; when Aquafighter was installed into clean tanks at these stations, the 6 month check-ups showed the fuel at the very bottom of the tanks to be 100% of the time clear and bright and tested at approximately 60ppm.

We have also conducted testing at the renowned Saybolt Laboratories in Sweden that show 100% efficiency to less than 75ppm and in cases of more than 1 week exposure to Aquafighter, as low as 56ppm.

### **What is the history of Aquafighter® use in application?**

Aquafighter was first developed in 2015 and since then more than 7,000 laboratory tests were performed that showed Aquafighter removes bound water to less than 75ppm in every single tested sample. In addition, the first adopter of Aquafighter was a major fuel company in Europe. In the first 2 Years with this fuel company more than 1,500,000 liters of bound water-filled fuel was recovered and sold at retail. This is massive costs savings added to massive sales gains as this prevented paying large sums to waste bad fuel. Also, in the last year at the 170 fuel stations that DieselCare AS personally maintains using Aquafighter, there were a total of zero fuel complaints and a 50% reduction in pump filter usage. That is 100% success and makes using Aquafighter a net profit for fuel stations on replacement filter saving alone.

### **Will Aquafighter® clean my dirty tank?**

Aquafighter will not remove large particles, it will not clean the bacteria that is currently in your tank and it will not repair already spoiled diesel fuel. However, Aquafighter will remove 100% of water to an amazing 75ppm and remove approximately 90% of small particles from your fuel. But once Aquafighter is in your tank, it will prevent bacteria from growing and prevent fuel from degrading quickly.

### **Why is Aquafighter® better than the many chemicals and additives on the market?**

Aquafighter is a cure for water in your tank and your fuel system as it removes water as it enters your tank and prevents it from causing any damage whatsoever. Chemicals and other absorbents only treat the bad things caused by the presence of water in your tank, your fuel system and your engine. Also, Aquafighter is completely safe to be handle and contains no harsh or dangerous chemicals. Many additives, chemicals and absorbents contains substances that are terrible for the environment, hazardous to touch and some even cause cancer. And we don't advocate putting our customers in harm's way.

### **Why would I need Aquafighter® if I have a water separator?**

A water separator does not remove any water from your tank and it only removes most of the free water after it enters your fuel system. In fact, a water separator is not made to remove bound/emulsified water and almost never will an engine manufacturer cover water damage on a warranty. It is the customer's responsibility to protect their own engine from bound water. But make no mistake, the manufacturers would love to sell you some OEM replacement parts.

### **Does it make sense to use Aquafighter® to remove just free water that is sitting at the bottom of my tank?**

Aquafighter is the most convenient way to remove free water, however, we recommend that you either drain this water or suck it out because this doesn't cost money and doesn't take much time. But, if you are not very mechanically inclined, you don't want to get your hands dirty or you have a very specific situation where draining and sucking it out is not applicable; the Aquafighter will absorb that water in less than 1 hour and virtually mess free.

### What about other products that claim to absorb water in the tank?

There are many products on the market that go to the bottom of the tank and absorb water. However, those products will only remove free water that has already fallen to the bottom of the tank. These products will also take at least 24 hours to absorb free water, they cannot remove bound water effectively, they are often not 100% effective at absorbed free water and they often contain chemicals that can cause cancer. (See the Aquafighter comparison to these products below)

Each testing tub contained 6 liters of diesel fuel emulsified with 250ml of water (4.17% water content or 41,700ppm). You can see transparency straight through in the Aquafighter sample and no change in other product sample after 36 hours. (Aquafighter sample was clear within 24 hours and other product sample was given an extra 12 hours to do something.)



### **How much water does Aquafighter® capture?**

It depends on the Aquafighter size. We have Aquafighters that can remove up to 60 liters of water.

### **How do I check to see if my Aquafighter® is full?**

You can either monitor the water separator for first traces of water, pull up the Aquafighter to inspect or use dipstick refill as a bound water check.

### **How long will my Aquafighter® last?**

Under normal circumstances your Aquafighter will keep your tank completely water-free for at least 1 year. However, there are events such as bad fuel and leaks that could affect this. In cases where you have excessive amounts of water in your tank; Aquafighter will clear the stated amount of water, saving much more expensive damage, downtime and repairs.

### **How do I dispose of Aquafighter® after it has been used?**

Aquafighter should be disposed of in "special waste", at your local auto parts store, or in any place oil filters and other similar products are disposed.

### **Will Aquafighter® damage my fuel?**

No. In fact, Aquafighter will make your fuel better than it was when it was produced.

### **Should I worry about the Aquafighter® expanding too much?**

No. The Aquafighter fabric membrane is designed to resist expansion. This is designed so that there is zero risk of removing it from the tank when it is full. As long as you follow the Aquafighter guidelines for proper Aquafighter-to-access hole you can leave Aquafighter in your tank for many years and still be able to retrieve it easily through the same hole.

### **Should I worry about the Aquafighter® tearing or breaking?**

No. Unless you deliberately cut it, alter it or violently yank it across a knife sharp edge; the Aquafighter will not break. The Aquafighter fabric is strong and durable and will keep the gel enclosed inside.

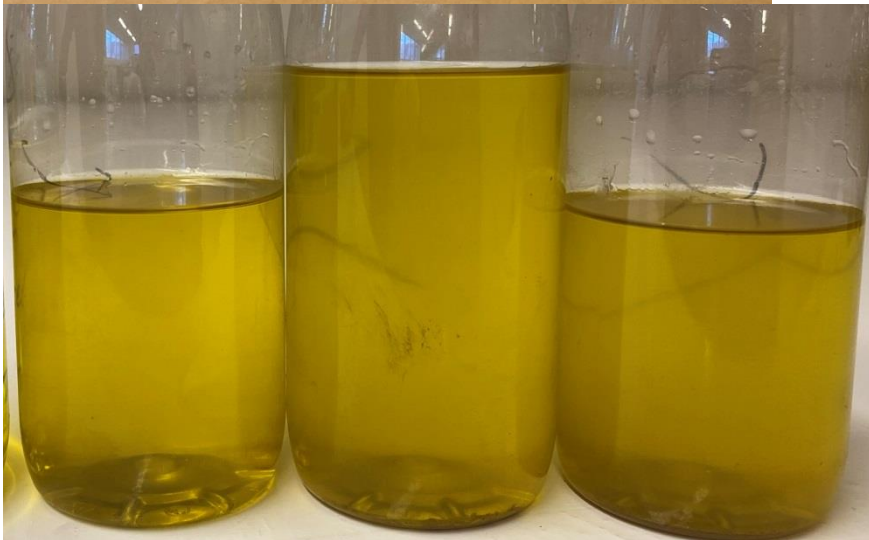
### **How much does Aquafighter® cost?**

This really depends on your country and Aquafighter reseller. However, Aquafighter is the absolute most effective and most affordable solution to keep your diesel tank completely water-free. In almost all cases, it is the only solution to keep your tank free from all water, including **bound water**, at all times.

### **What is bound water?**

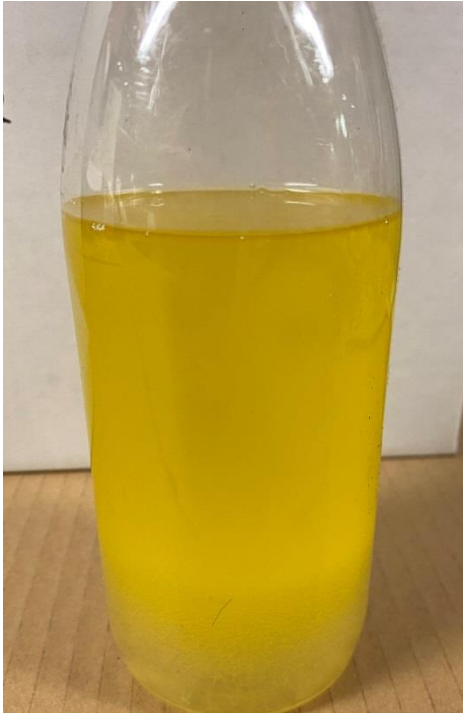
Bound water is water that is attached to molecules of diesel fuel that do not fall to the bottom of the tank and will not be separated by a water separator. With bio-diesel, bound water is absorbed at a much higher rate and becomes a significantly bigger threat to your engine and fuel system. You can identify bound water as it makes the fuel cloudy and difficult to see through.

*Examples of fuel with bound water below:*



### **What is bio-bound water?**

Biodiesel has up to 25 times higher moisture saturation than petroleum diesel. With the introduction of any amount of biofuel into diesel, bound water becomes much more prevalent. In fact, biofuel significantly raises the saturation point of fuel even with a small percentage of added biofuel. In summary: **More bio-fuel content = More bound water content.**



### **How does bound water affect my tank and fuel system?**

Bound water is water and does all the damage that water does to anything. It will rust the tank, it will damage metal parts in your engine and fuel system, it will cause your engine to run wonky, it could make you engine die, it can cause your fuel to degrade faster, it will grow mold and bacteria and many other not excellent things.

### **How can I get rid of bound water?**

Since bound water cannot be simply drained from the tank, there are really only 3 options:

1. You can hire a fuel polishing company who will bring a truck to your tank, pump it out, process your fuel through a centrifuge, run it through a filter or 2 and pump back the polished fuel back into your tank.
2. You can just run the high water-content fuel through your engine and wish for the best.
3. You can keep Aquafighter in your tank and never have to worry about water ever again.

### **Can bound water cause bacteria and diesel bug?**

Absolutely. Water, both bound and free provide the oxygen that starts bacteria colonies and fuels its growth.

### **How does Aquafighter® prevent bacteria and diesel bug?**

Aquafighter removes all water from the tank so there is no oxygen for bacteria to multiply.

### **Why is Aquafighter® called a “Step-1 Solution?”**

Aquafighter is a “Step-1 Solution” because it completely removes water at the first step in the fuel delivery process. As water is introduced into your fuel tank, Aquafighter neutralizes it. In fact; water will be eliminated before it can cause damage to your tank, pump, fuel system or engine.

### **Can I trust Aquafighter® to clean my fuel in the tank?**

Aquafighter is scientifically proven in a lab, in vehicle fuel tanks as well as in fuel station diesel tanks. Aquafighter will remove all water, purifying the diesel fuel to better-than-spec. However; if your fuel has already degraded, Aquafighter nor any other machine or magic potion is able to restore this fuel. Your best option is to get Aquafighter in your tank and give yourself the absolute best fuel protection on Earth.

### **Can I put Aquafighter® in a tank that hasn't been cleaned?**

Yes. While it is always best to operate with a clean tank, Aquafighter will take the water out of the diesel in a tank that currently has bacteria and dirt.

