

Fuel-Stabiliser

Fuel Magnet systems



The most commonly heard question is always:

Do fuel magnets serve a purpose?

The answer: **Yes**, however not as a solution on its own but always in combination with water separator

Some suppliers of fuel magnets tend to make bold claims about their products like that they 'align the molecules' in the fuel, and more extreme statements are invented to boost their sales.

From us, no such nonsense: our Fuel-Stabiliser magnets don't get the molecules to dance to the same rhythm, but they "do" damage the cell wall of the bacteria, which means end of life for the bacteria and that is what matters!.

Our Fuel-Stabiliser magnet systems have a dual function namely:

1. Stabilising the diesel fuel.

Diesel fuel is by nature an "unstable matter", which in time breaks down into its basic elements. This process is caused by natural ageing and acid secretion by the bacteria. One of these basic elements is asphalt; this becomes visible on the bottom of your tank/reservoir in small black particles. These asphalt particles are in fact an essential element of the diesel fuel. By having your fuel run through the strong magnetic field of our Fuel-Stabiliser, the diesel fuel is turned into a "stable" product again. This prevents the fuel disintegrating therefore achieving greater combustion.

2. Disruption of the cell wall of the bacteria.

The cell wall consists of phospholipids. This cell wall has two functions:

- a) Protecting the internal parts of the cell.
- b) Separating the intercellular and extracellular salt of which the cell wall consists.

When the cell wall passes through the fuel- stabiliser strong magnetic field, the electrical charge that exists within the salts that make up the cell wall are disturbed, due to this action the bacteria can no longer regulate its Ph level (degree of acidity) rendering them in a dormant state, the direct result of this is that the bacteria can no longer multiply to form colonies (strings of bacteria).

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The bacteria cell wall recovery period after damage is approximately 26 days. During this period, the bacteria cannot form colonies.

The bacteria would have been passing through the fuel injection system several times during this period. So therefore there is a high chance that they are in a dormant state or have already been combusted.

Any bacteria which are still alive and which are still able to form colonies will be captured by the Micro-Separator.

Answers to the most asked questions about the Fuel-Stabiliser and the Micro-Separator:

How is it possible that fuel bought from a trusted supplier, still contains water, particles and bacteria, although it leaves the refinery in a clean and good condition?

From the refinery to the end-user; the fuel is transported and stored by various means. In storage tanks and fuel pipes, oxidization can occur due to the presence of water or condensated water which forms between the top of the stored fuel and tank. Due to these moist conditions fungus and bacteria end up in storage tanks and enter the fuel chain.

Can't anything be done against this?

Yes: It is certainly possible to take preventive measures. A number of bunker stations have already mounted Fuel-Stabiliser, to make sure that the diesel fuel can be delivered germfree (i.e. free of living bacteria). In combination with an in line Micro-Separator which can be mounted also. The Micro-Separator not only removes all the excess water from the diesel fuel (more than 99,9997%) but even particles like sand and rust, which are larger than 75 micron (75 µm).

If I fill my tank at such a bunker station, I won't run into trouble then?

If you fill it with fuel which is free of bacteria and water into a tank which is already contaminated and dirty, all the efforts of your fuel supplier have been in vain. You too will have to make sure that your fuel storage and fuel lines are clean and that they stay clean. You will therefore have to fit the same type of fuel treatment to your fuel system.

Is it always necessary to fit a fuel magnet?

Yes. If your fuel system is contaminated, the magnet will constantly give the fuel the necessary treatment. If your fuel system is not contaminated, you will at least prevent it from becoming contaminated in the future.

If I fit a fuel magnet, will it then still be necessary to fit a Micro-Separator water separator?

Yes.: Bacteria in your tank form a slimy mass which floats in the fuel. The Micro-Separator removes this biomass plus all of the free water and contamination larger than 75 micron from your diesel fuel, without you having to mount filters with filter inserts. Your regular fuel filter will encounter much less pollution and will therefore last much longer, which will be more cost effective...

Is it also possible to protect the fuel in the bunker/tank?

Yes, when the fuel is being pumped around in the whole system the Fuel-Stabiliser will protect against micro-organisms.

There are also other magnet systems available on the market; some of them even have multiple magnets. Are these better than the Fuel-Stabiliser?

No, the amount of magnets used is of no importance. The only important thing is the strength of the magnetic field of the magnet (or magnets). This strength is also called magnetic flux density and is measured in Tesla. For example one magnet of 1 Tesla is equally effective as four magnets of 0, 25 Tesla each.

Fuel magnets always need to be installed in combination with a water separator, as the final outcome will otherwise be disappointing.

Fuel-Stabiliser fuel magnets						
Type	Connection BSP (internal)	Flow in litre/hr.	Dimensions			Weight kg
MFS-110	1/2"	110	90 x	90 x	20 mm	1,25
MFS-750	1/2"	750	100 x	100 x	35 mm	1,75
MFS-1900	1"	1900	120 x	120 x	50 mm	2,5
MFS-5600	2"	5600	230 x	230 x	90 mm	5



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