

# WEATHER PROOF YOUR FUEL WITH DIESEL DEFENDER FUEL ADDITIVE



**Protect your fuel for up to 2 years with IPU's all-in-one treatment for stored fuel.**

IPU's new Diesel Defender Fuel Additive is an integral step in any fuel maintenance programme.

This unique additive formulation contains dispersant and deposit control chemistries and is specifically designed for critical uptime applications where bulk fuels are stored on a prolonged basis, such as:

- Standby generators
- Critical Infrastructure such as datacentre, healthcare, financial services and distributor centres
- Agriculture, horticulture and construction
- Airports
- Or anywhere with a bulk or day tank.

## Winter-proof your fuel

Diesel can wax in particularly cold weather. Diesel Defender will help to prevent waxing in the diesel, ensuring filters aren't blocked.



## Smoother running

Diesel Defender will raise the fuel's cetane number, to avoid rough running in newer engines.



## Prevent microbial growth

Diesel Defender enhances fuel resistance to microbial growth, protecting filters from heavy blockages.



**Let's talk**

**+44 (0) 121 511 0400**

# PROTECTING STORED FUEL

IPU's Diesel Defender keeps your fuel stable. Combined with the IPU Additive Dosing System, accurate dosing into the fuel is guaranteed.



## Defend your diesel

Diesel sold in the UK contains 7% biodiesel, as well as having lower sulphur levels. This is great for emissions, but creates a raft of problems for those storing fuel. Diesel Defender will off-set any negative effects of biodiesel, whilst giving improved **fuel economy**.

IPU's Diesel Defender Fuel Additive will:

- improve day to day running of diesel engines
- offer greater stabilisation to fuel during storage
- raise the cetane number to avoid rough running in newer engines
- offer lubrication for fuel pumps
- guarantee lower deposit formation in injectors

## Contamination prevention

Fuel tanks are prime breeding grounds for all manner of contamination, including **diesel bug**. If left unchecked these quickly multiply creating fuel sludge, which results in blocked filters and stopped engines. Diesel Defender enhances the fuel's resistance to diesel bug.

It also increases the fuel's resistance to water. Biodiesel is naturally **hygroscopic**, so even a small

increase in water content will reduce the energy content of the fuel and may create fuel-water emulsions. The additive promotes continuous fuel-water separation and will break emulsions giving optimum fuel quality.

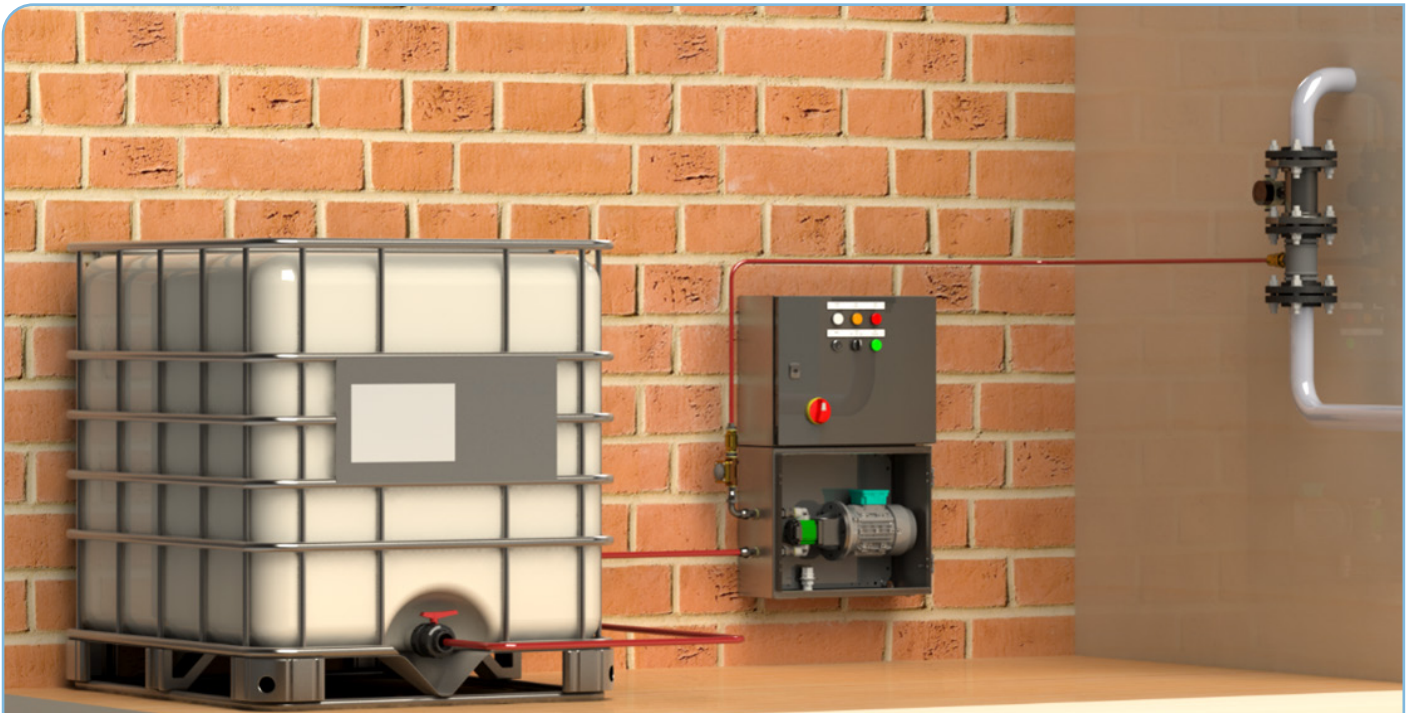
Today's diesel has also seen a reduction in the sulphur content, in order to tackle harmful emissions. This has an impact on the fuel's natural lubricity leading to excessive or premature wear in fuel pumps and injection equipment. IPU's Diesel Defender protects the fuel's **lubricity** to prevent unnecessary wear in the engine.

## Warranty worries?

The product is formulated from recognised fuel additive components and should not void an engine manufacturer's warranty. In fact, many engine manufacturers and fuel companies recognise the problems with modern biodiesel and state that engine failure due to contaminated diesel will not be covered by warranty. The need for upgrade additives when diesel is used is actively encouraged.



# ACCURATE DOSING GUARANTEED



## Dosing difficulties

Additives are typically manually added to the fuel storage tank when the fuel is inside. This makes adding the correct ratio for optimum performance and storage conditions difficult.

## Protect your assets

IPU's diesel fuel dosing rig will remove the uncertainty by accurately measuring the flow of fuel going into the fuel storage tank from the fuel tanker. It will automatically inject the correct ratio of additive directly into the diesel as it is pumped into the storage tank.

The dosing system can be used either for mobile use, or static on tank mounted systems, and has programmable logic which can be calibrated to dose a range of different additives at different ratios to the diesel supply. They are all supplied in an IP66 housing for complete weather protection.

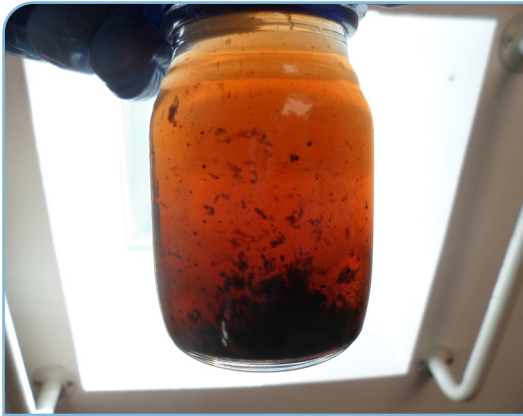
Combined with IPU's Diesel Defender all purpose additive, it should be an integral part of your fuel management program.



**REQUEST A QUOTE FOR DIESEL DEFENDER HERE:**

[www.ipu.co.uk/quotation-request/](http://www.ipu.co.uk/quotation-request/)





## THE BIODIESEL PROBLEM

Diesel fuel tanks are prime breeding grounds for all manner of contamination, including diesel bug. If left unchecked these quickly multiply creating fuel sludge.

Modern diesel engines are hugely vulnerable to any form of fuel contamination, which will cause injector block and damage, resulting in total engine failure and significant costs.

**In many applications where diesel engines are used such as emergency power, this is a completely unacceptable and avoidable risk.**

A comprehensive fuel maintenance programme will keep fuel clean, allowing you to store it much longer, and give you the trust that your generators will run on reliable fuel.



For further details, please visit:

[IPU.CO.UK/FUEL](http://IPU.CO.UK/FUEL)

For more information, please contact:

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