

A combined anti-oxidant and biocide for biodiesel

Defender protects biodiesel when it is in storage for a month or more. The combined antioxidant / biocide controls growth of unsaturated fatty acids and microbes that can cause build-up of harmful gums and corrosive acids in the fuel. Oxidation occurs in biodiesel when contact is made with air or metal surfaces in steel tanks.

Benefits

- Protects biodiesel for up to 2 years.
- Protects against bacteria and fuel oxidation.
- Non hazardous & environmentally friendly.
- Inhibits microbial growth in oil and water.
- Non corrosive to equipment and tanks.
- Combusts without residue.

Application

Add Defender at the final stage of biodiesel production, once the fuel has been filtered and washed. Dispersion agents included in the product ease the fuel mixing process and decrease mixing times. For best results, pour into the fuel stream as it enters the storage tank. Store fuel in tanks that prevent water contamination. **Do not add** Defender if the biodiesel is still above 50 deg C as it has the potential to flash off.

Dose rate

Typical application rates are between 1 ml and 2 ml per litre, but the required treatment rate will depend on the natural stability of the biodiesel produced.

How it works

When biodiesel is made, part of the production process strips the biodiesel of its naturally occurring antioxidants. Defender is added to control the premature oxidation of unsaturated fatty acid esters in biodiesel and the formation of highly volatile compounds and corrosive carboxylic acids. Without the use of an additive like Defender, these compounds are known to result in polymerised and cross-linked gums that can precipitate and damage all types of diesel engines.

Technical support

We offer on-site assistance with this product to ensure good performance as well as laboratory testing of your biodiesel to decide the correct dose rate.

All NDK products are thoroughly tested, COSHH registered and come with Material Safety Data Sheets.

Disclaimer

The information herein and all further technical advice, is based on our present knowledge and experience. However, they imply no liability of other legal responsibility on our part, including with regards to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied of guarantee of



Pack sizes

- 20 litre UN Approved drums
- 210 litre UN approved drums
- 1000 litre IBC
- 20,000 litre bulk tanker

product properties is intended or implied. We reserve the right to make any changes to the product. Performance of the product should be verified by testing, which should be carried out by qualified experts in the sole responsibility of the customer.