

Grotamar 71®

The authorization number issued by CtgB is valid for 13938N until 1 February 2023 CtgB (College for the Authorization of Plant Protection Products and Biocides).

The main problem that biodiesel brings is moisture/ water. Biodiesel absorbs much more water (up to 8x more because biodiesel is hygroscopic) than the EN590 diesel oil of yesteryear. Moisture in fuel is immediately a source of problems.

How does moisture get into the fuel tank?

Temperature fluctuations, dark rooms, long storage (e.g. after a winter) and poor sealing of the fuel filling opening ensure that moisture or condensation is given a chance in fuel tanks. Now there's always a percentage of moisture in fuel. However, diesel can absorb up to 0.02% water.

If there is more than 0.02% moisture in the diesel, this will slowly sink to the lowest point of your fuel tank. An excess of moisture reduces the lubricating effect of the diesel fuel and will eventually lead to bacterial growth. These bacteria need to be removed before they clog the fuel filter and stop your engine from running.

Biodiesel is good for the environment but brings a lot of problems for storage tanks, engines, filters, pipes etc.

To effectively combat the growth of bacteria and fungi, a product has been developed that is specially grafted on preventing the formation of bacteria and fungi.

Grotamar 71® has already proven itself in the world of boats and yachts where it is used to prevent the formation of harmful substances during longer periods of non-use.

More and more often it is also necessary to protect used diesel tanks from, for example, trucks on a daily basis.

Product properties

- Protection for diesel fuels and technical products
- Good anti-corrosive properties and long-term protection against microbiological material degradation
- Broad and balanced property spectrum (including sulphate-reducing bacteria
- Contains no nitrate, nitriding agents or organically bound chlorine
- (has no effect on the AOX value)
- Approved by the "Bundes Immissionschutzgesetz"*
- Good solubility in diesel fuel and water
- Bacteria and antifungal properties
- Fast operation

*** German law to protect emissions and uptake**

Manual

- Protective treatment 0.05–0.20 l/1000 l diesel
- Cleaning of contaminated diesel 0.20–0.50 l/1000 l diesel
- Shock dosage 0.5 – 1.0 l/1000 l diesel

Instructions for use

Due to the good stability of Grotamar 71® in diesel, more than 80% of the initial concentration was measurable after three months of storage at room temperature. Grotamar 71® therefore provide long-term protection even with low concentrations of 50 – 200 ppm.

For light polluted diesel, 0.2 – 0.5 liter Grotamar 71® per 1000 liters of diesel fuel is sufficient.

If the microbiological pollution is already visible in the tanks or already causes technical problems, e.g. frequently clogged filters, then a

a shock dosage is recommended. Use 0.5 L – 1 L grotamar 71® per 1000 liters of diesel fuel. Grotamar 71® is best added to a dewatered tank that is filled for about a third. When the tank is filled, the product mixes. The dosage should be adjusted to the contents of the tank.

In case of strong contamination, it is recommended to clean the tank before using Grotamar 71®.

Complies with the European Biocidal Products Directive (98/8/EC). Holds a NATO classification (NATO Stock no.6850-333-7409)

References Car and engine manufacturers:

- Daimler AG - tested and approved
- MAN Nutzfahrzeuge AG - tested and approved
- MTU - Freidrichshafen - listed
- Kassbohrer Ulm - approved
- Deutz AG - recommends use of grotamar 71

Analysis data

Test			Results
Product - Class	Method	Unit	Grotamar 71®
Color	Visual		Clear, colorless - yellowish liquid
Smell			As ammonia
Density (20 °C)		g/ml	1.049 – 1.069
Refractive index 20 °C		°C	1.469 – 1.477
Flashpoint	ISO 2719	°C	> 100
Viscosity 20 °C	DIN 53 211	°C	Flow time < 15 sec

Item number 102107
Capacity 0.5 L

Item number 102109
Capacity 10 L