

FUEL MICROBICIDE

Biobor®JF is the original, industry standard for contamination in fuels such as diesel, gasoline, jet fuel and heating oil. Biobor JF provides highly effective, proven dual-phase chemistry to eliminate the growth of fungi, bacteria, and algae that contaminate fuel systems, clog filters, corrode metal surfaces and cause service interruptions.

For contaminated systems with microbial growth present, Biobor JF may be used as a "shock treatment" to kill and control microorganisms. Biobor JF may also be used routinely in sterile systems as a preventative, "maintenance treatment" to ensure fuel quality and prevent contamination. Continued use of a biocide extends filter life, prevents biofilm and sludge formation, and inhibits microbial influenced corrosion (MIC).

As an added benefit, Biobor JF has been proven to increase the lubricity properties of ULSD providing additional protection to injection systems and fuel delivery components.

Biobor JF is fully compatible with a wide variety of fuels, fuel system components and common materials. It does not affect fuel performance and is more stable, less corrosive and safer to handle than many other biocide chemistries.

Since 1965, Biobor JF has proven effective and compatible by many of the largest refineries, terminals, militaries, airlines, fleets, vessels, railroads and end users worldwide.

BENEFITS:

- Highly effective biocide to kill and prevent microbial growth in hydrocarbon fuels (bacteria & fungi)
- Dual Phase – partitions to both the water and fuel phases for more effective and complete protection
- Prevents corrosion of tanks and delivery system caused by the acidic by-products of microbial growth
- Safer handling and less harsh/corrosive than competitive biocides
- The original, most widely used biocide since 1965
- Does not add Sulfur to ULSD - contains less than 15ppm sulfur

APPROVALS:

- EPA Biocide Registration # 65217-1
- MILITARY SPEC - MIL-S-53021A
- Aviation APPROVED - approved for aviation use by turbine and airframe OEMs, FAA and IATA
- OEM APPROVED - Recommended in diesel and turbine engine manuals

Maintenance Dosage (135ppmW*)	Shock Dosage (270 ppmW*)
1 g 10,000 g offuel	1 g 5,000 g offuel
1 oz : 80 g	1 oz : 40 g
*equivalent to 100 ppmV	*equivalent to 200 ppmV

Application: For existing contamination, long term storage or initial treatment, a shock dosage followed by effective sterilization. Subsequent fuel may be treated with a maintenance dosage. Biobor JF should be added to fuel tanks in small increments prior to application and keep tanks dry with proper housekeeping. Use a metered injection, or by splash blending during fueling or with circulation to ensure uniform blending.

Storage & Handling: Containers should be kept closed to atmosphere and protected from water contamination. It is a violation of Hammonds quality standards and EPA regulations to remove Biobor JF from its original packaging. Shelf life is 3 years from date of manufacture.

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The Industry Standard since 1965

Kills and prevents microbial growth that cause fuel contamination

For use in all hydrocarbons including diesel, biodiesel, jet fuel, heating oils, gasolines, heavy distillates and lubricants

➤ **MIL-S-53021A**

➤ **Aviation APPROVED**

➤ **OEM APPROVED**

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Available in 8, 16, 32oz bottles.
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Fuel Tank Maintenance & Fuel Quality Management
BIOCIDE TREATMENT PROGRAM

BIOBOR JF - Fuel Biocide

Dosage:

Shock Treatment

1 gallon : 5,000 gallons of fuel = 270ppmW (200 ppmV)

Application:

Blending:

Contact Time:

may

Fuel Quality Maintenance: TEST | TREAT | PROTECT

Sampling:

is

from which it was

Testing:

on-site

Monitoring:

Treatment:

performed

help prevent

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