

Turboline® FS100



Used By
The U.S. AIR FORCE
WORLDWIDE

Aviation Fuel Performance Additive

Turboline®FS100 is a high-temperature **fuel stabilizer** and **detergent** additive designed to **minimize carbon** or **coke deposits** in turbine fuel combustion systems. Combined with antioxidant and metal deactivator additives, **Turboline®FS100** is a **multi-functional** product that is formulated with the same **detergent technology used by the U.S. Air Force** in the JP-8+100 program. The JP-8+100 program was a study conducted by the U.S. Air Force in the 1980's to determine the effects of higher heat loads generated by new propulsion engines which were designed to power the next generation of fighter aircraft. **Turboline®FS100** is an additive which **addresses the problems of high-temperature fuel combustion**.

When jet fuel is exposed to **increased temperatures**, chemical reactions cause **carbon** and **coke** build-up on metal surfaces which can lead to poor fuel atomization, distorted fuel spray and an overall **drop in engine performance**. **Turboline®FS100** prevents this problem.

In dirty systems, **Turboline®FS100** first **stops** reactions that cause **carbon** and **coke build-up** as the fuel is heated. **Turboline®FS100** also binds to existing carbon-on-metal surfaces and creates a **cleaning action** as the additive flows through the system. This two-fold action cleans turbine systems and keeps them clean.

Turboline®FS100 is readily soluble in jet fuel. Batch blending into the fuel is acceptable, but the best procedure is proportional injection. **Turboline®FS100** is **completely compatible** with other fuel system additives such as FSII and **Biobor JF®**.

Turboline®FS100 is **fully approved** for all operators using **GE, Pratt & Whitney, Honeywell** and **all variants of the Turbomeca Arriel 1 & 2 engines**. Operators with other **Turbomeca engine models** and **Rolls-Royce** can obtain approval on request. Please contact your local FAA authority, international authority, or OEM if you have specific questions concerning your equipment.



Contact **Hammonds Fuel Additives, Inc.** for **Turboline®FS100** pricing and delivery information. For more information please call a **Hammonds Fuel Additive Specialist** at (800) 548-9166 or visit our website www.hammondscos.com.

–Recommended Treatment Level for **Turboline®FS100**–
8 Oz. **Turboline®FS100** treats 100 Gallons of Fuel



Turboline® is a high temperature **fuel stabilizer** and **detergent** for aviation fuel.

- ✓ Maintains **engine power levels** longer
- ✓ **Less soot** and **coke** in combustor
- ✓ **Fewer** fuel nozzle **cleanings**
- ✓ **Reduces** operating **expenses**
- ✓ **Lowers** maintenance **costs**
- ✓ **Improves** aircraft **availability** and **flight safety**



HAMMONDS FUEL ADDITIVES, INC.

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BIOBOR[®] Family of AVIATION FUEL ADDITIVES

The Worldwide Standard Since 1965

THE MOST RECOGNIZED NAME IN FUEL ADDITIVES.

BIOBOR JF[®]

Aviation Turbine and Jet Fuel
MICROBIOCID

Kills fungi, bacteria and **micro-organisms** which cause **fuel tank contamination...**

Available Sizes: 8oz., 16oz., 32oz., 1gallon, 5 gallons, 55 gallons, 330 gallon totes



- ✓ **Disperses** and **prevents** sludge
- ✓ **Prevents** clogged filters
- ✓ **Adds** lubricity to low sulfur fuels, **exceeding** ASTM Standards
- ✓ The **only biocide** that **kills** in both the **water** and **fuel phase**, for a more efficient kill
- ✓ **Recommended** by airframe and equipment manufacturers around the world
- ✓ Military Spec **MIL-S-53021A**

LubriBor[®]

Super Lubricity Agent for
Low Sulfur Fuels

Far exceeds ASTM standards
Improves **fuel lubricity** and
reduces fuel system wear.

Available Sizes: 16oz. and 5 gallon pail



- ✓ **Lubricates** Vital Engine Parts
- ✓ **Prolongs** Engine Life
- ✓ **Cuts** Maintenance Costs
- ✓ **Improves** Fuel Efficiency
- ✓ **Reduces** Engine Wear

MIL-SPEC product
Approved for use in
commercial and
military jet fuel



BIOBOR[®]



HUM-BUG[®]

DETECTOR KIT

Available in 12 kit cases

EARLY WARNING!

- ✓ **Ensures** fuel supply **quality**
- ✓ **Low cost**, easy-to-use
- ✓ **Early warning** detection of microbial infestation in fuel
- ✓ **Detects** microbial **infestation** in all hydrocarbon fuels and oils

The HumBug Detector[®] Kit identifies the presence of microbial infestation in fuel tanks. Use this in conjunction with **BioBOR JF[®]** to ensure a clean and safe fuel supply.



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