

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®**, the worldwide leading fuel biocide.

Turboline®FS100 is **fully approved** for all operators using **GE, Pratt & Whitney, Honeywell** and **all variants of the Turbomeca Arriel 1 & 2 engines**. For a complete list of aircraft engine and airframe manufacturers approving of the use of **Turboline®FS100** please see the reverse side of this document.

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.



Available in:
16 oz bottles,
5 gallon pails
and 55 gallon
drums



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**

-Recommended Treatment Level for **Turboline®FS100**-
8 oz. **Turboline®FS100** treats 100 gallons of fuel



FUEL ADDITIVES, INC.

6807 West Little York • Houston, Texas 77040 • (800) 548-9166

www.biobor.com

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
MICROBIOCIDES

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



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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