

URF & DE-ICING FLUID



Fuel System Icing Inhibitor (FSII) AL - 41 & AL - 31

Prevents formation of ice in aviation fuels

At high altitude and low temperatures, free water in aviation fuels can crystallize and block fuel filters. Despite the stringent measures which have been put in place to eliminate water from aviation fuels, the possibility of free water contamination still exists. In civilian aircraft, fuel heaters can help to minimize the formation of ice in fuels. However, military aircraft do not generally use these heaters, due to restrictive weight requirements. Fuel System Icing Inhibitor (FSII) acts to prevent the formation of ice crystals, providing additional security in the event of free water contamination in aviation fuel. It is a mandatory additive in many military aviation fuel specifications. FSII dissolves sparingly in fuel, but more easily in water. Any water present will extract FSII from the fuel; the additive then acts to reduce the freeze point of the free water, preventing the formation of solid ice crystals which could block the fuel supply system. The additive is suitable for use in either aviation turbine fuel (jet fuel) or aviation gasoline, subject to specification requirements and approvals.

Deicing Product Range

- Type II & IV Aircraft De-icing Fluid
- Type - I Aircraft De-icing Fluid
- Ground De-icing Fluids

FSII specification

- ASTM D4171 (Type III)
- DEF STAN 68-252/2 (Formerly- DERD 2451)
- MIL-DTL - 85470B
- NATO CODE: S-1745

THE TYPICAL TREAT RATE FOR FSII IS 0.10% TO 0.15%

UNIVERSAL RECOIL FLUID (URF)

UNIVERSAL RECOIL FLUID is a fully synthetic recoil fluid used for recoil systems of artillery guns above 150mm diameter. URF has a wide variety of working temperature from -55°C to 90°C. This fluid meets all the corrosion requirements. URF has unique detergent property to remove blast residue from the Guns.





PRODUCT	SPECIFICATION	APPLICATION
TRANSMISSION FLUID T - 20	JSS 9150-62:2005	Transmission oil to be used in torque converters, transmission and hydraulic systems fitted in tractors and farm equipment
OIL OM - 33	JSS 9150-26:2007 (Revision No.3)	Lubricant for use in light machinery, fire control and other instruments also used as hydraulic fluid for certain servo mechanisms and oil operated gunnery equipment
GUN RECOIL FLUID POZH 70	GOST TY 6-01-5757583-8-79	Synthetic recoil fluid used for systems of T-90 armored tanks. POZH 70 has a wide variety of working temperature from -75°C to 90°C
OIL MK - 8P	JSS 9150-37:2012 (Revision No.2)	Oil intended to be used in air craft gas turbines, Naval gas turbines, recoil system of guns and preservative for fuel system inhibition
OIL C - 70	JSS 9150-09:2002 (Revision No.2)	Oil to be used in lubrication of artillery equipment and breach equipment.
ANTIFREEZE COOLANT DAFC-30 & DAFC-50	JSS 6850-30:2010 (Revision No.1)	Coolant in the engine cooling systems of cars, trucks, heavy vehicles and auxiliary power units in ready to use form.
OIL MINERAL HYDRAULIC BUFFER (OMHB)	JSS 9150-10:2012 (Revision No.3)	Is a Hydraulic medium in recoil systems of gun mounting under all conditions of service. It is also used as hydraulic medium in some equipment and as lubricant for high speed spindles.
ANTIFREEZE - 65 RADAR SYSTEM COOLANT	JSS 9150-080 : 2012	Coolant for radar systems of russian origin with requirements of freezing point less than -65 °C
UNIVERSAL RECOIL FLUID (URF)	JSS - 6850-31 : 2017	Synthetic recoil fluid used for recoil systems of artillery guns above 150mm diameter. URF has wide variety of working temperature from -55°C to 90°C
TRANSMISSION FLUID F - 10	JSS 9150-61 : 2005	The oil meets ford specification ESW-M2C-33F intended to be used in automobiles demanding high static coefficient of friction to have firm clutch lock up it can be used in all seasons and all types of rubber seals.
FLUID AUTOMOTIVE TRANSMISSION TYPE 'A'	JSS 9150 - 63 : 2003 (Revision No.1)	Transmission fluids for automotive transmissions to be used in T-72 tanks also used in control cum lubrication system of power train fitted in certain equipment
OIL OX - 13	JSS 9150-15 : 2002 (Revision No.2)	Low temperature preservative cum cleaning agent and lubricant for small arms and machine guns
LUBRICATING OIL (MINERAL) INDUSTRIAL OIL	JSS 9150-34 : 2003 (Revision No.1)	Lubricant for various type of industrial equipment where special additives are not required.
OIL OX - 52	JSS 9150 - 11 : 2000	Preservative cum cleaning agent and lubricant for small arms and machine guns at medium and high temperatures.