



# AVIATION SOLUTIONS

Lubricants designed to improve the functionality, reliability and longevity of aviation components from take-off to landing.





# LUBRICANTS IN FLIGHT

SYNTHETIC LUBRICANTS FOR AVIATION



## Primary Flight Controls

Wing Flap Bearings - UniFlor™ 8961MT  
Rotating Shaft Coupling - AND-786

## Auxiliary Power Unit

Thread Lubricant - Rheolube® 733MZ

## Fuel Control

Bearings in High Speed  
Rotating Oscillatory Pivot - Rheoplex 6000HT  
Actuator & Bearings - UniFlor™ 8921, UniFlor™ 8980 & UniFlor™ 8981

## Fuel System

Valve O-ring - UniFlor™ 8921

## Electrical

Connectors & Sensors - UniFlor™ 8917

## Galley

Food Prep Compartment - Fluorocarbon Gel 880FG  
Food Prep Equipment - UniFlor™ 8921A

## Cockpit Instruments

Shaft/Tachometer Generator - UniFlor™ 8961MT  
Connector Harness - Rheotemp™ 768G  
Potentiometer - UniFlor™ 8981

## Avionic Control

Electrical Connector - NyeTact® 571H-10  
Joystick & Yoke - NyoGel® 774 Series  
O-ring/Seal - UniFlor™ 8961MT  
Switches - UniFlor™ 8950 & UniFlor™ 8980

## Landing Gear

Trunnion Pin - Rheolube® 374A  
Shimmy Damper - Fluorocarbon Gel 880  
O-ring/Seal - UniFlor™ 8512S

## Engine Exhaust

Actuator Components - UniFlor™ 8991MT  
Gear Train Cables - UniFlor™ 8991MT

## Electrical

Sliding Switches - Rheotemp™ 763G  
Overhead Lighting Connectors - NyoGel® 760G

## Cabin

Interior Components - UniFlor™ 8172  
Recliner Mechanisms - UniFlor™ 8172  
Hinges/Slides - UniFlor™ 8512  
Seat Tray Hinges - NyoGel® 774 Series  
Personal TV Hinges - NyoGel® 774 Series  
Seat Belt Latches - Fluorocarbon Gel 836A  
Pressure/Oxygen Valve O-ring - L-Phen-100K  
Air Vent Controls - NyoGel® 774HF



# AVIATION APPLICATIONS

## AIRFRAME

Proper function of landing gear during takeoff and landing is absolutely critical to save aircraft operation. Primary flight controls need to activate as desired by the pilot when the aircraft is in flight. Lubricating airframe components with a corrosion-inhibited, synthetic hydrocarbon grease designed for high speed, wide temperature conditions will function.

## AVIONICS

The electronics and avionics systems found in the cockpit rely on lubrication to ensure the communications, navigation, and other crucial flight systems perform properly. Some instrumentation and adjustment controls require lubrication to ensure long-term protection from corrosion and consistent, reliable operation. The synthetic lubricants enable mechanisms to slide, push or flip smoothly, while also imparting the optimal feel or control feedback for the pilot's interface to a wide range of mechanisms and switch designs, including levers, dials, slides, push buttons, etc.

## ENGINE

Aircraft engines must withstand a wide range of temperatures and operate at high altitudes. Components, including the lubricant, must be compatible with aviation fuels and resist corrosive fuel system vapors. Unique fluorinated synthetic lubricants, that are inherently inert, are ideal for this kind of operating environment. In addition to staying fluid at very low temperatures, their superior thermo-oxidative stability prevents high-temperature oxidation and varnishing even at continuous temperatures of 250°C, while also resisting aggressive chemicals and fuels.

## INTERIOR

Passenger seating and storage systems can benefit from a thin film of lubricant applied to interior component hinges and slides, to reduce noise generated by vibration and friction in the aircraft cabin while engines are running. In most instances, the actuation of these interior components are operated by passengers. A properly selected lubricant that stays in place will ensure a quality sound and feel of operation. Passenger electronic interfaces and entertainment systems rely on lubricants to ensure electrical connections have long-term protection from corrosion and fretting wear.



## **Nye Lubricants, Inc.**

12 Howland Road  
Fairhaven, MA 02719 USA

Ph: +1.508.996.6721

Email: [contact@nyelubricants.com](mailto:contact@nyelubricants.com)

**NyeLubricants.com**