



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
Lavatory Vacuum Pump Bearing - Rheotemp™ 500

Cockpit Instruments

Shaft/Tachometer Generator - UniFlor™ 8961MT
Potentiometer - Fluorocarbon Gel 711-1
Connector Harness - Rheotemp™ 768G

Avionic Control

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

Landing Gear

Shimmy Damper - Fluorocarbon Gel 880
O-ring/Seal - UniFlor™ 8512S
Trunnion Pin - Rheolube® 374A & Rheolube® 343

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 successful aircraft operation. Primary flight controls need to activate properly 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 ensure proper long-term function and maintenance-free operation of these critical flight systems.

AVIONICS

The electronics and avionics systems found in an airplane 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 proper synthetic lubricant should 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 when pulled into their open positions. 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

NyeLubricants.com



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TS 89216

