



# Lubricants that perform. Experience you can trust.



## Nye Aerospace Customers (Partial List)

- Aerospace Corporation
- Aerospace Technologies
- Air Canada
- Air France
- Air India
- Airborne Express
- Allied Signal
- AMETEK Rotron Mil-Aero Products
- Astronautics Corporation of America
- BAE Systems – Inertial Products Inc.
- Barden Precision Bearings
- BF Goodrich Aerospace
- BI Technologies Corporation
- Brashear LP
- Delta Airlines
- General Dynamics
- General Electric
- GRW – Gebrueder Reinfurt GmbH & Co.
- Hamilton Sundstrand
- Honeywell, Inc.
- Hughes Aircraft
- INA USA Corporation
- ITT Aerospace
- Jet Propulsion Labs
- Lockheed-Martin Corporation
- Lufthansa
- Moog Inc.
- NASA Glen Research
- Naval Research Labs
- Naval Surface Warfare Center
- Northrop Grumman Corporation
- NTN Bearing Corporation of America
- Pratt & Whitney
- Raytheon Missile Systems
- Rolls-Royce
- Royal Air Maroc
- Sun Country Airlines
- Tecstar Electro Systems
- The Boeing Company
- Timken Aerospace and Super Precision
- United Airlines
- US Airways
- US Department of Defense
- Varig
- Westjet Airlines
- Wright-Patterson Air Force Base

Nye Lubricants has been designing high-quality synthetic lubricants for leaders in the aerospace industry for more than 30 years. Our scientists and engineers focus on two challenging categories of aerospace applications: discrete components that are lubricated for life and mechanical or electromechanical devices that must operate for extended periods in severe environments. Nye's synthetic oils and greases are specified for extreme-temperature jet engine actuators; cargo aircraft landing gear; aircraft controls; precision bearings in gyros, accelerometers, and space suits; wide-temperature avionics connectors; linear actuators for satellite antennas; and many other critical aerospace components. Today, we continue to work with design engineers in the private, government, and military sectors to formulate new synthetic lubricants that will take off with next-generation aircraft and spacecraft.

**CUSTOM FORMULATION** Nye's approach to lubricant design is a cornerstone of our success. While some lubricant suppliers specialize in only one type of chemistry, Nye stocks a complete selection of synthetic fluids. We work with all standard synthetic hydrocarbons, esters, polyglycols, silicones,

polyphenylethers, as well as proprietary fluids such as chlorophenylpolydimethylsiloxanes and multiplyalkylated cyclopentanes. Nye is also the only lubricant company that offers all five types of perfluoropolyether fluids, each with its own unique tribological qualities. This unparalleled range of chemistries — coupled with our experience in selecting and blending fluids for specific applications — ensures that each Nye customer gets the lubricant best suited to the application.

**LUBRICATION SERVICES** Nye offers several technical services that are frequently used by aerospace customers. We maintain a Class 100 Ultrafiltration Lab where any of Nye's oils and greases can be filtered to precise cleanliness levels. Nye regularly filters and certifies the cleanliness of other manufacturers' lubricants as well. We can certify oils to Mil-Std 1246 and greases to Mil-G-81322 or Mil-G-81937. In addition, Nye will package or repack any lubricant in oilers, syringes, cartridges, and other small dispenser-containers. Nye also can customize Mil-Spec lubricants with rust inhibitors, antioxidants, fortifiers, and other additives to enhance performance or extend service life.



*At Nye, we're committed to creating value for customers with expertly engineered synthetic lubricants. For consultation, lubricant samples, or additional information, e-mail us at [techhelp@nyeaerospace.com](mailto:techhelp@nyeaerospace.com) or call our world headquarters at 1.508.996.6721.*

**Exclusive Distributor of Pennzane® Fluids for North America**

## Aerospace Lubricants by Nye (Partial Listing)

For evaluation samples, information about other synthetic lubricants by Nye, or to request a custom-designed synthetic lubricant for your application, please e-mail Nye at [techhelp@nyeaerospace.com](mailto:techhelp@nyeaerospace.com) or call our world headquarters at 1.508.996.6721.

	Temp Range (°C)	Conforms to	Chemistry*	Precision Bearings	Other Bearings	Gears /Actuators	Potentiometers	Vacuum	Ball /Lead Screws	Noble Metal Connectors	Tin/Lead Connectors
<b>Synthetic Oils</b>											
Nye Synthetic Oil 132	-60 to 120	MIL-DTL-53131, Grade 4 MIS-35841	Synthetic hydrocarbon	•							
Nye Synthetic Oil 179A	-54 to 120	MIL-DTL-53131, Grade 6	Synthetic hydrocarbon	•							
Nye Synthetic Oil 182	-40 to 125	MIL-DTL-53131, Grade 9	Synthetic hydrocarbon	•							
Nye Synthetic Oil 186	-34 to 125	MIL-DTL-53131, Grade 14	Synthetic hydrocarbon	•							
Nye Synthetic Oil 176A	-30 to 125	MIL-DTL-53131, Grade 40 USAF 8D195LL	Synthetic hydrocarbon	•							
Nye Synthetic Oil 200A	-54 to 130	MIL-PRF-6085	Synthetic diester	•							
Nye Synthetic Oil 2001	-45 to 125	Honeywell P8261059	Multi-alkylated cyclopentane	•				•			
Nye Synthetic Oil 2001A	-45 to 125	NASA Part #166683	Multi-alkylated cyclopentane	•				•			
NyoSil™ -M25	-73 to 200	Allied Signal MCS9176	Chlorophenylpolydimethylsiloxane	•			•				•
NyeTor® 5101	-54 to 150	—	Ester	•	•			•	•		
NyeTor® 5301	-65 to 250	—	Perfluoropolyether	•	•			•			
<b>Synthetic Grease</b>											
Nye Instrument Grease 750A	-65 to 125	Mil-G-21164	Diester oil/lithium soap	•	•	•					
Nye Instrument Grease 704C	-65 to 150	Mil-G-23827	Diester oil/inorganic gel		•	•			•		
Nye Instrument Grease 710R	-70 to 150	Mil-G-23827	Royco 27A (Diester oil/lithium soap)		•	•					
Nye Instrument Grease 731B	-70 to 200	Mil-G-25013	Silicone oil/fluorocarbon solids	•	•	•					
NyoGel® 781D	-54 to 200	Formerly General Electric G-300	Halogenated silicone oil/organic soap	•	•				•		
NyoGel® 753MS	-40 to 150	—	Polyester oil/inorganic thickener			•					
NyeTor® 5200	-45 to 125	—	Multi-alkylated cyclopentane oil/PTFE	•	•			•	•		
Rheolube™ 374A	-40 to 150	MIL-PRF-32014	Synthetic hydrocarbon/lithium soap	•	•				•		
Rheolube™ 733	-54 to 125	MIL-PRF-81322 DOD-G-24508	Mobilgrease 28 (PAO/organic clay)	•	•	•					
Rheolube™ 733F	-54 to 125	—	Mobilgrease 28 fortified with PTFE	•	•	•					
Rheolube™ 2000	-45 to 125	Honeywell P8261137	Multi-alkylated cyclopentane oil/organic thickener	•	•			•			
Rheotemp™ 500	-54 to 175	Formerly Texaco Unitemp 500	Polyester oil and complex thickener	•	•						
UniFlor™ 8991MT	-60 to 250	Allied Signal ES-2155	Perfluoropolyether oil/PTFE		•	•					
<b>Lubricant Dispersions</b>											
NyeTact® 502H (UV)	-40 to 120	—	PAO grease/solvent								•
NyeTact® 515 Series (UV)	-20 to 100	—	PAO oil/wax binder/solvent								•
NyeTact® 520 Series	20 to 250	—	Synthetic ether oil/solvent								•
NyeTact® 523H (UV)	20 to 250	—	Synthetic ether oil/wax binder/solvent								•

\*For Technical Data and MSDS, contact Nye Lubricants, Inc.



12 Howland Road Fairhaven, MA 02719 USA  
 Ph: 1.508.996.6721 Fx: 1.508.997.5285 E-Mail: [techhelp@nyeaerospace.com](mailto:techhelp@nyeaerospace.com)

[nyeaerospace.com](http://nyeaerospace.com)

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