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## Aerospace Lubricants

# Lubricants that perform.

# Experience you can trust.

### Nye Aerospace Customers (Partial List)

- Aerospace Corporation
- Air Canada
- Air France
- Air India
- Airborne Express
- Allied Signal
- AMETEK Rotron
- Astronautics Corporation of America
- BF Goodrich Aerospace
- BI Technologies
- BAE Systems
- Ball Aerospace
- Barden Precision Bearings
- Blue Canyon Technologies
- Boeing Company
- Boeing Satellite Systems
- Brashear LP
- Delta Airlines
- General Dynamics
- GRW-Gebrueder Reinfurt GmbH & Co.
- Hamilton Sundstrand
- Honeywell, Inc.
- Hughes Aircraft
- INA USA Corporation
- ITT Aerospace
- Ithaco Space Systems
- JAXA
- Jet Propulsion Labs
- Kaydon Corporation
- Lufthansa
- Mitsubishi Precision
- Moog Inc.
- NASA
- Naval Research Labs
- Naval Surface Warfare Center
- Northrop Grumman Corporation
- NTN Bearing Corporation of America
- Orbital Sciences Corporation
- Pratt & Whitney
- Raytheon
- Rolls-Royce
- Starsys Research
- Tecstar Electro Systems
- Timken Aerospace and Super Precision
- United Airlines
- US Airways
- US Department of Defense
- 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 navigational instruments 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 chlorophenylpolydimethylsilox-

anes 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 an 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-81937. In addition, Nye will package or repackage 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, email us at [contact@nyelubricants.com](mailto:contact@nyelubricants.com) or call our world headquarters at +1.508.996.6721.*

**Exclusive Global Distributor of Pennzane™ Fluids**



## 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 [contact@nyelubricants.com](mailto:contact@nyelubricants.com) or call our world headquarters at +1.508.996.6721.

				Precision Bearings	Other Bearings	Gears/Actuators	Potentiometers	Vacuum	Ball/lead Screws
Synthetic Oils	Temp. Range (°C)	Qualifies to	Chemistry*						
Nye Synthetic Oil 200A	-54 to 130	-	Synthetic diester	•					
Nye Synthetic Oil 2001	-45 to 125	Lockheed 34-4965	Multi-alkylated cyclopentane	•				•	
Nye Synthetic Oil 2001A	-45 to 125	NASA Part # 166683	Multi-alkylated cyclopentane	•				•	
NPE UC7	-40 to 150	Hughes 20-2164	Ester	•	•	•			
NyeVac® 9720	-40 to 150	-	Ester	•	•			•	•
NyeTorr® 5301	-65 to 250	-	Perfluoropolyether	•	•			•	
Nye Synthetic Oil 132	-60 to 120	MIL-DTL-53131A	PAO/anti-wear additives	•	•				
Nye Synthetic Oil 182	-40 to 125	MIL-DTL-53131A	PAO/anti-wear additives	•	•				
Nye Synthetic Oil 186	-34 to 125	MIL-DTL-53131A	PAO/anti-wear additives	•	•				
Nye Synthetic Oil 176A	-30 to 125	MIL-DTL-53131A	PAO/anti-wear additives	•	•				
Nye Synthetic Oil 179A	-54 to 120	MIL-DTL-53131A	PAO/anti-wear additives	•	•				
Synthetic Greases									
Nye Instrument Grease 750A	-65 to 125	-	Diester oil/lithium soap	•	•	•			
Nye Instrument Grease 704C	-65 to 150	-	Diester oil/inorganic gel		•	•			•
Nye Instrument Grease 710R	-70 to 125	-	Diester oil/lithium soap		•	•			
Rheolube® 951	-54 to 150	Hughes 20-2164	Ester oil/lithium soap	•	•				
NyoGel® 753MS	-40 to 150	-	Polyester oil/inorganic thickener			•			
NyeTorr® 5200	-45 to 150	-	Multi-alkylated cyclopentane oil/PTFE	•		•		•	•
Rheolube® 374A	-54 to 177	MIL-PRF-32014A	PAO/lithium soap	•		•			•
Rheolube® 2000	-45 to 125	Lockheed 34-4962	Multi-alkylated cyclopentane oil/organic thickener	•	•			•	
Rheotemp™ 500	-54 to 175	Formerly Texaco Unitemp 500	Polyester oil and complex thickener	•	•				
UniFlor™ 8961MT	-80 to 200	MIL-PRF-27617F - Type IV	Perfluoropolyether oil/PTFE			•			
UniFlor™ 8991MT	-60 to 250	Honeywell ES-2155	Perfluoropolyether oil/PTFE		•	•			

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

Please note that U.S. Department of Commerce Export Administration Regulations and U.S. Department of State International Traffic in Arms Regulations (ITAR; 22 CFR 120-130) restrict the export of certain Nye products. An export license may be required.



12 Howland Road Fairhaven, MA 02719 USA  
 Ph: +1.508.996.6721 Email: [contact@nyelubricants.com](mailto:contact@nyelubricants.com)  
[NyeLubricants.com](http://NyeLubricants.com)

