Nye Aerospace Customers
(Partial List)

**SPACE**

Aerospace
Corporation
Allied Signal
Astronautics
Corporation of
America
BF Goodrich
Aerospace
Ball Aerospace
Barden Precision
Bearings
Blue Canyon
Technologies
Boeing Satellite
Systems
Eaton Aerospace
Honeybee
Honeywell, Inc.
Ithaco Space
Systems

ITT Aerospace
JAXA
Lockheed Martin
Space Systems
Mitsubishi Precision
Moog Inc.
NASA
Northrop Grumman
Orbital Sciences
Corporation
Parker Aerospace
StarSys Research
Tecstar Electro
Systems
Timken Aerospace
& Super Precision
UTC Aerospace

**AVIATION**

Airbus
Air Canada
Air France
Air India
American Airlines
AMETEK Rotron
Bangkok Airways
BF Goodrich
Aerospace
BAE Systems
Boeing Company
Bombardier
Cessna
Delta Airlines
Embraer
GE Aviation
General Atomics
Goodrich Aviation

GRW-Gebrueder
Reinfurt GmbH & Co.
Hughes Aircraft
INA USA Corporation
Kaydon Corporation
L-3 Brashear LP
Lufthansa
NTN Bearing
Philippines Airlines
Pratt & Whitney
Rolls-Royce
Sikorski
Singapore Airlines
Tai Airways
Turkish Airlines
United Airlines
UTC Aviation

**DEFENSE**

Airborne Express
AMETEK
DFAS
Fort Campbell
Army Base
General Dynamics
Hillman Air
Force Base
Naval Research Labs

Naval Surface
Warfare Center
Raytheon
USAF Joint Base
Elmendorf-Richardson
US Department
of Defense
Wright Patterson Air
Force Base

Lubricants that perform.
Experience you can trust.

Nye Lubricants has been designing high-quality synthetic lubricants for leaders in the aerospace industry for more than 60 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 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 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 oils, 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, visit us at NyeLubricants.com or call our world headquarters at +1.508.996.6721.
| Space       | Temp. Range (°C) | Qualifies to        | Chemistry*                              | Precision Bearings | Other Bearings | Gears/Actuators | Vacuum | Ball/lead Screws |
|-------------|------------------|---------------------|-----------------------------------------|--------------------|----------------|----------------|--------|----------------|-----------------|
| **Space**   |                  |                     |                                         |                    |                |                |        |                |                  |
| Nye Synthetic Oil 2001A | -45 to 125       | NASA Part # 166683  | Multiplyalkylated cyclopentane          | •                  |                |                |        |                |                  |
| Rheolube® 2000 | -45 to 125       | Lockheed 34-4962    | Multiplyalkylated cyclopentane oil / organic thickener | •                  | •              |                |        |                |                  |
| Rheolube® 2004 | -45 to 125       | Lockheed 34-4962    | Multiplyalkylated cyclopentane oil / organic thickener | •                  | •              |                |        |                |                  |
| NyeTorr® 5301 | -65 to 250       |                     | Perfluoropolyether                      | •                  |                |                |        |                |                  |
| NyeTorr® 6200 | -45 to 150       |                     | Multiplyalkylated cyclopentane          | •                  | •              | •              |        |                |                  |
| NyeTorr® 6300 | -65 to 250       |                     | Perfluoropolyether                      | •                  |                |                |        |                |                  |
| NyeTorr® 6350EL | -80 to 250     |                     | Perfluoropolyether                      | •                  |                |                |        |                |                  |
| NyeTorr® 6351 | -65 to 250       |                     | Perfluoropolyether                      | •                  |                |                |        |                |                  |
| **Aviation**|                  |                     |                                         |                    |                |                |        |                |                  |
| Rheolube® 733MZ | -54 to 125   |                     | Clay / Polyalphaolefin                  | •                  |                |                |        |                |                  |
| Rheolube® 374A | -54 to 177       | MIL-PRF-32014A       | PAO / lithium soap                      | •                  |                |                |        |                |                  |
| Uniflor™ 8512S | -50 to 225       |                     | Perfluoropolyether                      | •                  |                |                |        |                |                  |
| Uniflor™ 8961MT | -80 to 200      | MIL-PRF-27617F - Type IV | Perfluoropolyether oil / PTFE              | •                  |                |                |        |                |                  |
| **Defense** |                  |                     |                                         |                    |                |                |        |                |                  |
| NPE UC7   | -40 to 150       | Hughes 20-2164      | Ester                                   | •                  |                |                |        |                |                  |
| 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 179A | -54 to 120       | MIL-DTL-53131A      | PAO / anti-wear additives               | •                  |                |                |        |                |                  |
| Rheolube® 374A | -54 to 177       | MIL-PRF-32014A       | PAO / lithium soap                      | •                  |                |                |        |                |                  |
| Rheolube® 951 | -54 to 150       | Hughes 20-2164      | Ester oil / lithium soap                | •                  |                |                |        |                |                  |
| Uniflor™ 8172MT | -54 to 255       | MIL-PRF-27617F - Type III | Perfluoropolyether oil / PTFE              | •                  |                |                |        |                |                  |
| Uniflor™ 8961MT | -80 to 200      | MIL-PRF-27617F - Type IV | Perfluoropolyether oil / PTFE              | •                  |                |                |        |                |                  |
| Uniflor™ 8991MT | -60 to 250       | Honeywell ES-2155   | Perfluoropolyether oil / PTFE              | •                  |                |                |        |                |                  |

*The typical properties shown on this document should not be used as a basis for preparing specifications. 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.

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