



# Lubeneotes:

**Maintenance Engineer's Guide to Selecting a Lubricant**

## Synthetic Lubricants for Industrial Maintenance

Nye offers a range of synthetic lubricants for industrial maintenance, repair and operations (MRO), including gears, bearings, chains, slides and many other components routinely exposed to extreme operating conditions, like high temperatures or exposure to corrosive environments. Nye also has several food grade oils and greases that meet NSF-H1 approval.

Typically synthetic lubricants last 5 to 10 times longer than petroleum products. While up front costs may be higher, these lubricants can provide significant savings for the overall maintenance budget by promoting longer equipment life and helping to extend lubrication intervals, thus providing a more effective scheduled maintenance program. Reduced internal friction that synthetics deliver can also improve the mechanical efficiency of industrial equipment, leading to lower energy consumption for further operation cost savings.

Nye's synthetic greases, oils and fluids are delivered in a wide variety of packaging options. Depending on customer requirements, including specific dispensing systems, our lubricants can be packaged in larger containers such as drums, totes, kegs and pails, as well as smaller containers like cartridges, syringes, plastic jars and tubes.


For technical specifications, evaluation samples, or questions about any Nye products — or to discuss a lubricant custom-designed for your application — call (508) 996-6721 or e-mail us at [techhelp@nyelubricants.com](mailto:techhelp@nyelubricants.com). Nye is ready to work with you to ensure you make the best possible lubricant choice.


**On the back of this page is a partial list of the most commonly used Nye synthetic lubricants for industrial maintenance applications.**



Industrial Oils	Type	Temp. (C°)	Grade	Description/Uses
Nye Synthetic Oil 132B	PAO	-60 to 120	ISO 15	Light synthetic oil providing low wear for metal stamping.
Nye Synthetic Oil 162	PAO	-54 to 120	ISO 32	Synthetic oil for light duty machinery.
Nye Synthetic Gear Oil 342	PAO	-50 to 125	ISO 68	AGMA 2S synthetic gear oil.
Nye Synthetic Gear Oil 344	PAO	-45 to 125	ISO 150	AGMA 4S synthetic gear oil.
Nye Synthetic Gear Oil 345	PAO	-40 to 125	ISO 220	AGMA 5S synthetic gear oil.
UniFlor™ 8190	PFPE	-20 to 250	ISO 320	Heavy viscosity synthetic oil for use in extreme environments.
Nye Synthetic Gear Oil 348	PAO	-40 to 125	ISO 460	AGMA 7S synthetic gear oil.

Industrial Greases	Type	Temp. (C°)	Grade	Description/Uses
NyoGel® 758G	Ester/Lithium	-40 to 150	ISO 32	NLGI #3 electrically conductive bearing grease.
NyoGel® 374C	PAO/Lithium	-40 to 150	ISO 68	NLGI #4 high speed 'channeling' grease for ball bearings.
Rheolube™ 365A-MS	PAO/Lithium	-40 to 125	ISO 100	NLGI #2 extreme pressure with Molybdenum Disulfide.
Rheolube™ 368A	PAO/Lithium	-40 to 125	ISO 220	NLGI #2 high-temperature multi-purpose.
Rheolube™ 794A	Ester/Clay	-20 to 150	ISO 460	NLGI #2 high-load, high-temperature.
UniFlor™ 4622R	PFPE/PTFE	-15 to 250	ISO 460	NLGI #2 for extreme environments.

Food Grade Oils	Type	Temp. (C°)	Description/Uses	NSF-H1	
Nye Synthetic Oil 269	PAO	-54 to 120	Synthetic oil for good self-penetrating and low temperature performance.		
Nye Synthetic Oil 271	PAO	-50 to 120	Synthetic oil for gears, bearings, slides, good low temperature performance.		
Nye Synthetic Oil 272	PAO	-35 to 120	Synthetic oil for multi-use on chains, bearings, slides, etc.		
UniFlor™ 8620	PFPE	-20 to 250	Synthetic oil for use in extreme environments.		
Nye Synthetic Oil 276L	PAO	-20 to 120	High viscosity synthetic chain oil for consistent damping characteristics.		

Food Grade Greases	Type	Temp. (C°)	Description/Uses	NSF-H1	
Fluorocarbon Gel 807	PAO/PTFE	-40 to 100	NLGI #2 general purpose grease with good low temperature performance.		
NyoGel® 670F	PAO/Silica	-35 to 120	NLGI #2 general purpose grease with PTFE.		
Fluorocarbon Gel 885FG	Silicone/PTFE	-40 to 150	NLGI #0-1 medium viscosity grease, low-friction, wide temperature capability.		
Fluorocarbon Gel 880FG	Silicone/PTFE	-40 to 200	NLGI #2 very high viscosity for damping and valve sealant applications.		
UniFlor™ 8622	PFPE/PTFE	-15 to 250	NLGI #2 for extreme environments, compatible with plastic and elastomers.		

Nye Lubricants, Inc. 12 Howland Road Fairhaven, MA 02719 USA Ph: 1.508.996.6721 Fx: 1.508.997.5285 [www.nyelubricants.com](http://www.nyelubricants.com)

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we cannot guarantee the applicability of this information or the suitability of our products in any individual situation. For the same reason, the products discussed are sold without warranty, expressed or implied. Statements concerning the possible use of our products are not intended as recommendations to use our product in the infringement of any patent. 08-8  
 ©2008 Nye Lubricants, Inc. The SmartGrease Company, NyoGel and NyeCorr are registered trademarks and SmartGrease, Rheolube and UniFlor are trademarks of Nye Lubricants, Inc.