



# Introducing Rheolube™ 374 SERIES

## High Performance Channeling Greases for Rolling Element Bearings

### Compare to Andok®!

When ExxonMobil discontinued production of its Andok channeling greases, Nye developed Rheolube 374 as an improved, drop-in replacement. Here's what manufacturers who replaced Andok® greases with Rheolube 374 are reporting:

*"...18% noise reduction, 10% reduction in starting and running torque...and an 8°F reduction in operating temperature."*

Manufacturer of DC Motors

*"...11% reduction in torque and 8°F drop in temperature..."*

Manufacturer of Document Handling Equipment

*"...17% increase in life during accelerated testing...reaches operating speed 5% faster."*

Manufacturer of Air Turbines

*"...11% noise reduction...9°F decrease in operating temperature."*

Manufacturer of Synchros, Servos, Resolvers

*"...11% noise reduction...9°F lower operating temperature...9% increase in life in accelerated testing."*

Manufacturer of Optical Encoders

*"... smoother operation...faster customer approval."*

Manufacturer of Brakes and Clutches

*"...appreciable noise reduction."*

Manufacturer of Food Processors

- Long Life, Severe Service
- Low Starting and Running Torque
- Superior Anti-Wear and Anti-Corrosion Characteristics
- Low Noise, Low Vibration
- Excellent Oxidative Stability
- Excellent Water Washout Properties

Rheolube 374 is a family of lithium-complex, synthetic hydrocarbon greases designed to improve the performance of rolling element bearings in severe operating conditions. Rheolube 374 is recommended for high-speed miniature and instrument ball bearings, as well as larger angular contact bearings used in machine tool spindles.

Rheolube 374 is available in two grades. Rheolube 374C is a stiff, NLGI Grade 4 grease recommended for lightly loaded, high-speed ball bearings. Rheolube 374B is a medium consistency, NLGI Grade 2 grease suitable for more highly loaded, lower speed ball and roller bearings. Custom formulations are also available.

### Superior Channeling Characteristics

Channeling occurs when rolling elements create a permanent path through the grease. On subsequent orbits, the rolling elements glide on the film of oil that exudes from the thickener. Because the thickener does not have to be continually displaced, channeling greases reduce torque, friction and thermal energy within the bearing, which extends bearing life.

### Long Life, Quiet Operation, Demanding Environments

Rheolube 374 performs well from -40°C to 150°C. The synthetic hydrocarbon base oil offers excellent oxidative and thermal stability, as well as exceptional wear protection under boundary lubrication conditions. A proprietary additive package maximizes its antioxidant, anti-wear, and anti-corrosion capabilities. Unlike sodium-complex greases, Rheolube 374 also offers excellent protection against water washout. In addition, Rheolube 374 is filtered to remove micron-size particles of debris and aggregated thickener, which significantly reduces noise and vibration during operation.

**Capture the Rheolube 374 advantage today.**

**Find out if your application qualifies for an evaluation sample of Rheolube 374. Send a description of your application to [techhelp@nyelubricants.com](mailto:techhelp@nyelubricants.com) or call Nye's Technical Service team at 508.996.6721.**



# Check Out the Nye Advantage

Use the following table to compare Rheolube™ 374 and Andok® greases. Rheolube 374 offers broader temperature service ranges, higher viscosity indices, higher flash points, lower pour points, better wear prevention, lower evaporation rates, and long-term protection against water washout — all with superior channeling ability.

Lubricant Properties	Test Method	Nye Rheolube 374C	Andok®C	Nye Rheolube 374B	Andok®B
Recommended Serv. Range (°C)	—	<b>-40 to 150</b>	-30 to 120	<b>-40 to 150</b>	-30 to 120
Thickener	—	Lithium Complex	Sodium Complex	Lithium Complex	Sodium Complex
<b>Typical Properties of the Base Oil</b>					
Type	—	Synthetic Hydrocarbon	Petroleum	Synthetic Hydrocarbon	Petroleum
Kinematic Viscosity@100°C	ASTM D-445	9.5 cSt	8.8 cSt	9.5 cSt	6.2 cSt
Kinematic Viscosity@40°C	ASTM D-445	60.7 cSt	93 cSt	60.7 cSt	59.2 cSt
Kinematic Viscosity@ -40°C	ASTM D-445	<b>25,300 cSt</b>	100,000 cSt	<b>25,300 cSt</b>	100,000 cSt
Viscosity Index	ASTM D-2270	<b>131</b>	48	<b>131</b>	53
Flash Point (°C)	ASTM D-92	<b>240</b>	174	<b>240</b>	193
Pour Point (°C)	ASTM D-97	<b>-56</b>	-18	<b>-56</b>	-21
<b>Typical Properties of the Grease</b>					
Color	—	Tan	Dark Brown	Tan	Dark Brown
NLGI Grade	—	4	4	2	2
Penetration 1/10mm – Unworked	ASTM D-217	177	180	255	270
Penetration 1/10mm – Worked (60x)	ASTM D-217	193	205	273	285
Specific Gravity gm/cc (25°C)	ASTM D-1480	0.89	0.96	0.87	0.94
Dropping Point (°C)	ASTM D-2265	280	260	260	280
Oil Separation (24 hrs.@ 150°C)	FTM791B,321.2	0%	0%	4.3%	2.8%
Evaporation (24 hrs.@ 150°C)	ASTM D-972	<b>0.9%</b>	6.9%	<b>0.8%</b>	9.7%
Water Washout (60 min.@ 80°C)	ASTM D-1264	<b>2.8%</b>	99.5%	<b>4.1%</b>	99.8%
4 Ball Wear (60 min.@ 75°C 1200 RPM, 40kg. load)	ASTM D-2266	<b>0.35mm</b>	0.97mm	<b>0.45mm</b>	0.61mm
Oxidative Stability (PDSC — 24 hrs.@ 150°C)	—	<b>No exotherm</b>	120.7 min.	<b>1,346 min.</b>	69.3 min.

Andok® is a registered trademark of ExxonMobil.

**Nye** Synthetic Lubricants *The SmartGrease Company*

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Bottom front and bottom back photos Courtesy of AST Bearings, Montville, NJ.

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