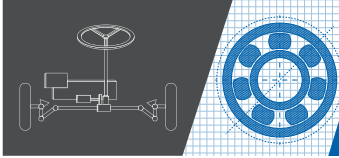
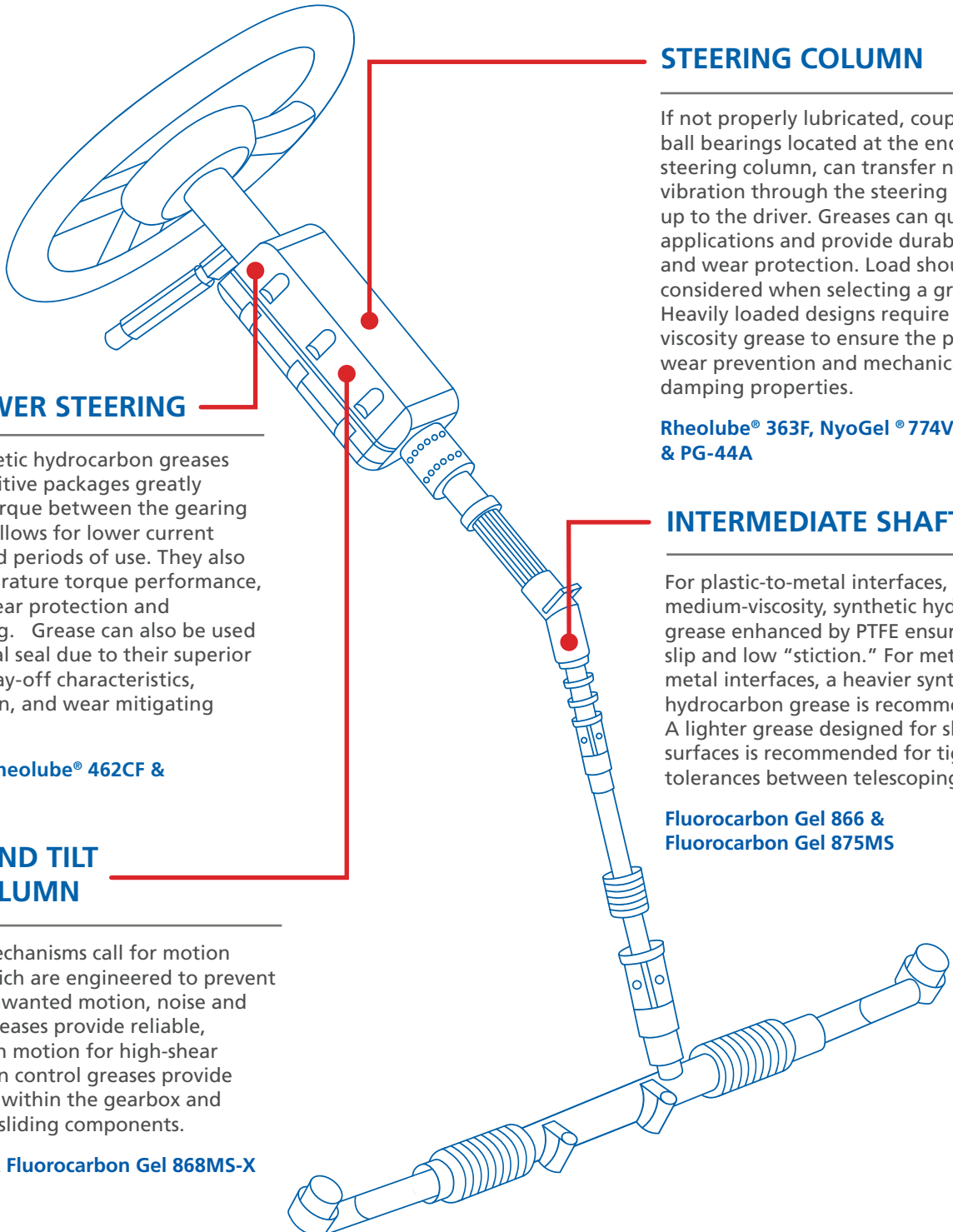




Lubricants for Steering Systems



Lubricants designed to lengthen operating life and improve the reliability of various applications, including bearings, bushings, gears, housings, seals, shafts, and more.



ELECTRIC POWER STEERING

Light weight synthetic hydrocarbon greases with advanced additive packages greatly reduce frictional torque between the gearing components. This allows for lower current draw over extended periods of use. They also improve low temperature torque performance, while providing wear protection and vibrational damping. Grease can also be used as an environmental seal due to their superior water washout/spray-off characteristics, corrosion protection, and wear mitigating capabilities.

Rheolube® 363F, Rheolube® 462CF & Rheotemp™ 662

TELESCOPE AND TILT STEERING COLUMN

Steering column mechanisms call for motion control greases, which are engineered to prevent wear and inhibit unwanted motion, noise and vibrations. These greases provide reliable, smooth, low-friction motion for high-shear mechanisms. Motion control greases provide lifetime lubrication within the gearbox and other pivoting and sliding components.

Rheolube® 362HB & Fluorocarbon Gel 868MS-X

STEERING COLUMN

If not properly lubricated, couplings, and ball bearings located at the end of the steering column, can transfer noise and vibration through the steering column up to the driver. Greases can quiet these applications and provide durability and wear protection. Load should be considered when selecting a grease. Heavily loaded designs require a heavy viscosity grease to ensure the proper wear prevention and mechanical damping properties.

Rheolube® 363F, NyoGel® 774VLF & PG-44A

INTERMEDIATE SHAFT

For plastic-to-metal interfaces, a medium-viscosity, synthetic hydrocarbon grease enhanced by PTFE ensures good slip and low "stiction." For metal-to-metal interfaces, a heavier synthetic hydrocarbon grease is recommended. A lighter grease designed for sliding surfaces is recommended for tight tolerances between telescoping shafts.

Fluorocarbon Gel 866 & Fluorocarbon Gel 875MS

Product	Chemistry	Temperature Range	Product Description	Application Notes
Rheolube® 363F	PAO/Lithium Soap	-50 to 125 °C	Medium viscosity, lithium soap, synthetic hydrocarbon grease fortified with PTFE. Intended for bearings, gears and slides that require low friction.	Steering Column Bearings EPS worm gears
Rheolube® 462CF	PAO/Lithium Soap	-54 to 130 °C	Next generation technology in a lithium soap thickened synthetic hydrocarbon grease.	EPS Gear
Rheotemp™ 662	PAO/ Calcium Sulfonate	-60 to 175 °C	Multi-purpose calcium sulfinate thickened, light viscosity, synthetic hydrocarbon grease. Superior water resistance.	EPS Housing
Rheolube® 362HB	PAO/Lithium Soap	-40 to 125 °C	Lithium soap thickened, light viscosity, synthetic hydrocarbon grease. Fortified with PTFE, tackifier, rust inhibitor and UV tracer.	Environmental seal
Fluorocarbon Gel 868MS-X	PAO/PTFE	-40 to 80 °C	PTFE thickened, medium viscosity, synthetic hydrocarbon grease. Additives for EP and rust prevention.	Telescoping Steering Column
NyoGel® 774VLF	PAO/Silica	-50 to 120 °C	Silica thickened, light viscosity, synthetic hydrocarbon grease containing a PTFE additive. Good water resistance and damping qualities.	Tilt Steering Column
PG-44A	Polybutene/Silica	20 to 120 °C	Extremely stiff, silica soap thickened, heavy viscosity, synthetic hydrocarbon grease intended for applications that require a high degree of damping.	Column Shaft/Seals
Fluorocarbon Gel 866	PAO/PTFE	-54 to 125 °C	PTFE thickened, light viscosity, synthetic hydrocarbon grease. Rust inhibited.	Intermediate Shaft Spline, telescope bushings
Fluorocarbon Gel 875MS	PAO/PTFE	-20 to 125 °C	PTFE thickened, heavy viscosity, synthetic hydrocarbon grease. Fortified with EP and rust inhibiting additives.	Steering Gear/Yoke

Since 1844: Our performance is reflected in the value we bring to our customers.

Nye Lubricants is a leader in the innovation, formulation and provision of synthetic lubricants, enabling and improving breakthrough products and critical new technologies. We bring proven experience, deep technical knowledge and customer focus to solve our customers' toughest challenges, adding tangible value to products in a wide range of industries and applications.

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