



Automotive Mechanical Lubricants



Lubricants designed for automotive mechanical applications must protect components from wear, corrosion, dust and humidity. Lubricants must also be capable of performing in temperature extremes from hot engine compartments to cold overnight soaks at -40°C (-40°F). Compatibility with the application's metals, plastics and elastomers must also be considered. For lubricants that improve tactile feel of controls see our Smooth Feel Lubricants, Synthetic Hydrocarbon Damping Lubricants or Silicone Damping Lubricants application sheets. The following are just some of the products Syn-Tech Ltd. currently supplies to the automotive industry.

Product	Description	-40 °C Operation	+145 °C Operation	Gears	Slides, Plain Bearings	Cables	Latches	Push Buttons, Levers	Plastic on Plastic	Metal on Metal	Plastic on Metal	PTFE Enhanced	Plastics Friendly (ABS, PC Compatible)
NS-396-G	Synthetic Hydrocarbon Li Soap	X	X	X	X			X	X		X		X
NS-710-G	PFPE PTFE Thickened	X	X	X	X	X	X	X	X	X	X	X	X
NS-711-G	Synthetic Hybrid Li Soap	X		X	X	X	X		X	X	X		X
NS-713-G	Synthetic Hybrid Li Complex	X	X	X	X		X		X	X	X		
NS-1613-G	PFPE Inorganic Thickener		X		X	X	X	X	X	X	X	X	X
NS-2113-G	Mineral Oil Li Complex	X	X	X	X	X			X	X	X		X
NS-2506-G5	Synthetic Hybrid Inorganic Thickener	X	X	X	X		X			X	X		
NS-2509-G	Synthetic Hydrocarbon Li Soap	X		X	X	X	X	X	X	X	X	X	X
NS-3313-G	Silicone Li Complex	X	X		X	X	X	X	X	X	X	X	X
NS-4711-G	Synthetic Hydrocarbon Li Soap	X	X	X	X	X	X	X	X	X	X		X
NS-6111-G	Synthetic Hydrocarbon Li Soap	X	X	X	X		X	X	X	X	X	X	X
NS-8904-G	Silicone PTFE Thickened	X	X	X	X	X	X	X	X	X	X		
NS-9797-G	Synthetic Hydrocarbon Li Soap	X	X	X	X	X	X	X	X	X	X	X	X
NS-10895-G	Synthetic Hydrocarbon Li Soap	X	X	X	X	X	X		X	X	X	X	X
NS-12290-G	Ester Clay Thickened	X	X	X	X	X	X		X	X	X	X	

Product	Description	Typical Application	Temp. Range C°
NS-396-G	Synthetic Hydrocarbon Li Soap	For mechanical interface lubrication requiring mechanical stability, low fluid migration, low evaporation and low mechanical friction. Applications include windshield wiper motors, small gearboxes and switches.	-40 to 149
NS-710-G	PFPE PTFE	High viscosity, wide temperature range PFPE grease. Extremely low evaporation for long life. Plastics friendly and chemically inert. PTFE enhanced.	-55 to 200
NS-711-G	Synthetic Hydrocarbon Li Soap	Gear and bearing grease. Formulated for long life friction reduction, antiwear and mild EP on steel components. Also an excellent lubricant for plastic gears and bearings. Designed for highly loaded applications such as power tools, automotive starters, electric steering and power seat actuators. Imparts reduced friction on acme nut or ball lead screws as well as worm gear drives.	-54 to 140
NS-713-G	Synthetic Hybrid Li Complex	NLGI 2 gear, bearing and slide grease. Formulated for enhanced metals wetting (more difficult to displace) and long life friction reduction for metal components. An excellent lubricant for plastic gears and bearings as well as dynamic elastomer seals. Will impart reduced friction on acme nut or ball lead screws as well as worm gear drives.	-40 to 180
NS-1613-G	PFPE Inorganic Thickeners	High viscosity, wide temperature range PFPE grease. Extremely low evaporation for long life. Plastics friendly and chemically inert. PTFE enhanced.	-35 to 200
NS-2113-G	Mineral Oil Li Complex	For applications requiring a long life, low oxidation rate lubricant that reduces friction and wear as well as providing mild damping and noise control. Formulated with EP and anti-wear additives along with excellent rust and corrosion protection. Applications might include metal and plastic gears, bearings, cables, slides, etc.	-40 to 135
NS-2506-G5	Synthetic Hybrid Inorganic Thickeners	Viscous NLGI 3 high lubricity grease for metal on metal applications. Unique blend of solids and base fluids gives outstanding wear resistance with good anti-squeak on breakaway. Non-melting.	-40 to 150
NS-2509-G	Synthetic Hydrocarbon Li Soap	Wide temperature range, low viscosity synthetic grease for bearings and slides. Formulated to reduce friction, stick-slip, and wear on metal/plastic and plastic/plastic dynamic interfaces.	-50 to 140
NS-3313-G	Silicone Li Complex	Medium viscosity lithium soap thickened silicone grease for light to moderately loaded plastic/plastic and plastic/metal bearings, slides and cables. PTFE enhanced.	-50 to 200
NS-4711-G	Synthetic Hydrocarbon Li Soap	For mechanical interface lubrication requiring mechanical stability, very low fluid migration, friction and anti-wear protection Excellent -40°C performance. Applications include windshield wiper motors, switches, small gearboxes and similar applications.	-50 to 140
NS-6111-G	Synthetic Hydrocarbon Li Soap	Versatile NLGI 1 grease provides antiwear, reduced friction and smooth feel to metal/metal, plastic/plastic and plastic/metal interfaces while providing corrosion protection for both ferrous and nonferrous metals. Excellent low temperature performance with good high temperature mechanical stability. This product exhibits extremely low fluid migration. May be used in gearboxes, mechanical sections of switches and bearings.	-48 to 140
NS-8904-G	Silicone PTFE Thickened	High viscosity non-melting PTFE enhanced lubricant for sliding metal on plastic and plastic on plastic applications. High thermal stability, low capillary action, smooth feel, high mechanical damping and reduced stick-slip.	-40 to 135
NS-9797-G	Synthetic Hydrocarbon Li Soap	High lubricity, low friction, excellent oxidation and thermal stability, smooth feel and damping. Applications include low to medium load gearboxes, cables, screw actuators and sliding interfaces.	-40 to 149
NS-10895-G	Synthetic Hydrocarbon Li Soap	For applications requiring low drag, damping and noise control. Formulated with EP, antiwear, rust and corrosion protection for use in low and high temperature requirements. Applications include seat tracks, metal and plastic gears, bearings, cables and slides.	-40 to 135
NS-12290-G	Synthetic Hybrid Clay Thickened	For applications requiring a non-melting grease with a long service life, thermal and mechanical stability, antiwear, rust and corrosion protection. Formulated with EP additives and PTFE for high load capability. Applications include window regulator clutches, door checks, gearboxes, cables, levers and cams.	-40 to 177

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Our Expertise Syn-Tech Ltd.'s product line has evolved products that satisfy applications of many types. Experience and in-house testing facilities have generated the knowledge to create and modify new and existing products to perform under rigorous demands. Contact our offices for assistance in lubricant selection.

Syn-Tech Ltd. 1550E W. Fullerton Avenue, Addison, IL 60101 USA

Phone (630) 628-7290 • Fax (630) 628-7291 • Email lubesales@syn-techlube.com • www.syn-techlube.com

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