



Syn-Tech Ltd.

The Finest Specialty Lubricants in the World



Lubricant Application Sheets

Automotive Mechanical Lubricants

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Fluor-Tech Full Spectrum PFPE Lubricants

Corporate Overview

2014 Edition



Syn-Tech Ltd.

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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 hydrocarbon 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 Name	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 Thickener	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 thickener	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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Automotive Electrical Contact Lubricants

Lubricants designed for automotive electrical applications must protect components from wear and corrosion, while providing protection against external elements such as dust, moisture intrusion, humidity, high engine compartment temperatures and long overnight soaks at -40°C (-40°F). Electrical lubricants should be chosen dependent on contact design (sliding, butt action, slip ring, etc.), contact forces, switching current requirements and compatibility with plastics, elastomers and metals. Low current switching with low contact forces may require a lubricant with different chemical and physical properties compared to switching high current with high contact forces. Some current Syn-Tech Ltd. applications are:

- Multifunction Switches
- Power Window Switches
- Power Door Switches
- Power Mirror Switches
- Trunk Switches
- Ignition Switches
- Hazard Warning Switches
- Headlamp Switches
- Power Seat Switches
- HVAC Switches

The following are just some of the products Syn-Tech Ltd. currently supplies for automotive electrical applications. Some of these products may also be used for light duty mechanical lubrication on gears, slides and bearings.

Electrical Connector Lubricants

Product	Description	Typical Application	Temperature Range (°C)
NS-50040-GC	Synthetic Hydrocarbon Silica thickened	An electrical connector grease for both ferrous and non-ferrous static electrical connectors. Specifically formulated for long life corrosion protection, vibration damping, fretting control and moisture resistance in elevated temperature environments. Contains a UV tracer.	-40 to +149

Compatible with most engineering plastics including polycarbonate and ABS.

Wide temperature range low arc debris contact lubricants

Product	Description	Typical Application	Temperature Range (°C)
NS-1702-G	Glycol Inorganic thickened	Non-melting grease for high current switching with low arc debris. Inhibited for Cu and Ag corrosion with good mechanical and chemical stability. Applications include high current switches, potentiometers and similar devices.	-40 to +149
NS-113-G	Glycol Li Soap	High current switching with low arc debris. Inhibited for Cu and Ag corrosion with enhanced contact antiwear. Also exhibits good mechanical and chemical stability. Applications include high current switches, potentiometers and similar devices.	-40 to +120
NS-8705-G	Glycol Organic Polymer	High current switching with low arc debris. Inhibited for Cu and Ag corrosion with good contact antiwear. Also exhibits good mechanical gel stability with good moisture resistance. Applications include high current switches, potentiometers and similar devices.	-40 to +120

Not compatible with ABS, polycarbonate, polyester, PPO, or PVC plastics, or buna S, butyl, or neoprene elastomers.

Wide temperature range plastics friendly electrical contact lubricants

Product	Description	Typical Application	Temperature Range (°C)
NS-396-G	Synthetic hydrocarbon Li Soap	For low current applications requiring low arc debris, nonferrous (copper, brass, silver) corrosion protection, excellent mechanical stability, low fluid migration and low evaporation at high temperatures.	-40 to +149
NS-7696-G1	Synthetic hydrocarbon Li Soap	For low current non-arcing sliding contact switches. Exhibits good corrosion protection on Cu, Cu alloy, Ag, Au and Ni metals in areas of high humidity. Applications include turn signal switches, window lift switches and power seat switches.	-40 to +149
NS-1709-GD	Synthetic hydrocarbon Li Soap	For on non-arcing, low current sliding switch contacts where a high quality, low volatility and water washout resistant grease is required. Designed for applications that with higher contact forces. Reduces wear due to vibration.	-40 to +149
NS-62100-GUV	PFPE Inorganic Thickener	High grade PFPE grease. Low volatility and high oxidation resistance for extended durability in thin films. Extremely wide operating temperature range. Contains an ultraviolet reactive tracer.	-70 to 200

Compatible with most engineering plastics including polycarbonate and ABS.

High Performance wide temperature range electrical contact lubricants

Product	Description	Typical Application	Temperature Range (°C)
NS-1102-G	Polyol ester Li Soap	For high current applications requiring extended operation at high temperatures, low arc switching debris, reduced sliding wear and corrosion protection on Cu, Cu alloys, Ag, Au and Ni metals. Excellent mechanical stability, low fluid migration, and low evaporation at high temperatures. Applications include transmission neutral start switches and similar high temperature devices.	-40 to +150
NS-2213-G	Ester Clay	For high current applications requiring extended operation at high temperatures, low arc switching debris, reduced sliding wear and corrosion protection on Cu, Cu alloys, Ag, Au and Ni metals. Excellent mechanical stability, low fluid migration, and low evaporation at high temperatures. Good water resistance.	-40 to +150
NS-2402-G	Polyol ester Li Soap	For high current applications requiring low arc switching debris, durability and corrosion protection for Cu, Cu alloy, Ag, Au and Ni metals. Excellent mechanical stability, low fluid migration, good mobility at low temperatures and low evaporation at high temperatures. Applications include transmission neutral start switches and similar high temperature, low current devices.	-40 to +141
NS-2802-G	Polyol ester Li Soap	For low and high current applications with excellent protection against sliding contact wear. Good protection against nonferrous metal corrosion due to humidity. Applications include turn signal switches, window lift switches, power seat switches and ignition switches.	-40 to +149
NS-8605-G	Polyol ester Organic Polymer	For low and high current applications up to 25 amps with excellent protection against sliding contact wear. Very good protection against nonferrous metal corrosion due to humidity. Applications include turn signal switches, window lift switches, power seat switches and ignition switches.	-40 to +149

Not compatible with ABS, polycarbonate, polyester, PPO, or PVC plastics, or buna S, butyl, or neoprene elastomers.

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Our Expertise

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Airbag Rotary Connector Lubricants

Automotive steering wheels for passenger cars and light to medium trucks typically have crash triggered inflatable air bag devices as part of their occupant safety systems. To assure a reliable path for an electrical signal to reach the air bag inflation firing unit, a solid wire connection is used. Because the steering wheel rotates relative to the instrument panel, a device looking much like the main spring on a mechanical watch is used for this function from which the name "Clock Spring" or rotary connector has evolved.

This conductor or tape often contains additional discrete parallel electrical conductors for cruise control, radio, and HVAC system steering wheel controls. The winding and unwinding of the multi-conductor tape (clock spring) typically generates noises and sounds considered objectionable in today's very quiet vehicle interiors. The sliding of the tape on the housings and other rotating hub interfaces generate wear issues.

Lubricant selection parameters include: high/low operating temperature range, absolute torque/force specifications, component materials, and lubricant oil separation and migration qualities.

The following table lists the more popular Syn-Tech Ltd. lubricants in use on long tape and short tape design clock springs.

Product	Damping	Temperature °C	PTFE Size	Silicone Elastomer Compatibility
NS-9388-G	Medium	-50 to +125	None	No
NS-410-G	Light	-50 to +125	Small+Large	No
NS-8201-G	Medium	-40 to +150	Small	No
NS-11501-G	Light	-40 to +130	Small	Yes
NS-40018-GL2	Light	-65 to +125	Small	No

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Synthetic Hydrocarbon Damping Lubricants

Mechanical damping greases are used to provide motion control, noise reduction and smooth feel between moving parts ensuring quiet mechanical operation and smooth action. Properly selected damping greases solve your design problems by retaining damping qualities over the operating temperature range of the application, resisting internal shear, friction reduction and reduction of wear between moving parts. These enhanced qualities extend service life of the mechanism.

Damping greases are properly selected on the specific design problem and the degree of damping required. The base oil viscosity, additives, and thickeners control the degree of damping. Other design considerations should include material compatibility, operating temperature range and cost.

The 50000 series damping greases were developed by Syn-Tech Ltd. to provide a smooth feel to mechanisms such as sliding or rotating switches, optical equipment such as surveying sights and microscopes, or any device that needs motion control, noise damping, or a “quality” feel. Formulated using the highest quality “plastics friendly” synthetic hydrocarbon fluids and non-melting thickener to meet a wide range of damping requirements and operating temperatures, the 50000 series of greases is versatile in that they also provide antiwear, E.P., and corrosion protection. They are also available with PTFE or molybdenum disulfide for enhanced “smooth feel”. Custom viscosities and colors are available upon request.

	NS-50010-G	NS-50050-G	NS-50100-G	NS-50150-G	NS-50300-G	NS-50600-G	NS-51000-G
	Low	← Damping →			High		
Base Fluid Properties							
Viscosity, cSt @ 40°C	64	410	895	1425	3200	6050	12000
Viscosity, cSt @ 100°C	10	50	100	150	300	600	1000
Viscosity Index	137	185	206	220	245	294	305
Flash Point, °C	>220	>220	>220	>220	>220	>220	>220
Pour Point, °C	-55	-48	-45	-42	-30	-21	-15
Grease Properties							
Worked Penetration 60 Double Strokes	305	268	275	275	275	268	272
Oil Separation 24 Hrs. @ 100°C	4.5	2.1	2.7	2.5	1.6	1.0	.4
Dropping Point, °C	>260	>260	>260	>260	>260	>260	>260

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Silicone Damping Lubricants

Silicone damping lubricants are used to provide motion control, noise reduction and smooth feel. When compared to hydrocarbon based lubricants, silicones have excellent temperature-viscosity characteristics, higher shear stability, water resistance and better low temperature performance. They provide a superior protective film between moving parts ensuring quiet mechanical operation and smooth action over a wider range of environmental conditions. These enhanced qualities extend service life of the mechanism.

The 40000 series damping fluids and greases were developed by Syn-Tech Ltd. to provide a smooth feel to mechanisms such as sliding or rotating switches, optical equipment such as surveying sights, microscopes, or any device that needs motion control, noise damping and a “quality” feel. These products are formulated using the highest quality “plastics friendly” silicone fluids and non-melting thickeners to meet a wide range of damping requirements and operating temperatures.

The lubricants in this series are available as:

- A fluid (-F suffix)
- A PTFE thickened grease for enhanced “smooth feel” and wear protection (-G suffix)
- A fumed silica thickened grease with a translucent appearance (-H suffix)

Custom colors and viscosities from 1cSt to 1,000,000 cSt are available upon request.

	NS-40032	NS-40150	NS-40300	NS-41500	NS-43500	NS-49000	NS-4017K
	Low ←———— Damping Level —————→ High						
Base Fluid Properties							
Viscosity, cSt @ 40°C	80	375	750	3800	10000	22000	45000
Viscosity, cSt @ 100°C	33	154	310	1540	3800	9500	19000
Viscosity Index	420	445	480	570	610	685	715
Flash Point, °C	>300	>300	>300	>300	>300	>300	>300
Pour Point, °C	-65	-50	-50	-45	-45	-43	-41
Typical Grease Properties							
NLGI Grade	1	1	1	2	2	2	2
Oil Separation 24 Hrs. @ 100°C	3	3	2	1	1	1	1
Dropping Point, °C	>260	>260	>260	>260	>260	>260	>260

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Smooth Feel Lubricants

Designed to give rotary and linear human interface controls a feeling of fluid motion, Syn-Tech Ltd's smooth feel greases eliminate the stiff, jerky action commonly associated with knobs, bezels, levers, and sliders. This can allow the user to set controls quicker and more accurately by preventing 'stiction' induced overshoot during fine-tuning and direction changes. Furthermore, smooth feel lubricants prolong the life of components by reducing the effort required to move the controls thereby minimizing strain placed on the mechanism.

These synthetic greases demonstrate superior low temperature performance. They are also compatible with most engineering plastics, including ABS and polycarbonate.

Product	40°C Viscosity cSt	Temperature Range °C	Base Fluid	NLGI Grade	Thickener
NS-510-G	24	-60 to 125	Synthetic Hydrocarbon	2	Li Soap
NS-1802-G	30	-40 to 125	Synthetic Hydrocarbon	0	Li Soap
NS-6404-G	30	-40 to 110	Synthetic Hydrocarbon	2	Li Soap
NS-7202-G	30	-40 to 125	Synthetic Hydrocarbon	2	Li Soap
NS-6505-GR	190	-40 to 150	Synthetic Hydrocarbon	2	Inorganic
NS-1705-G	375	-50 to 135	Silicone	1	Inorganic
NS-3313-G	400	-50 to 177	Silicone	1	Li Complex Soap
NS-8904-G	15,000	-40 to 135	Silicone	1	Inorganic

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Gear Lubricants

From steel mill gear reducers to miniature geared actuators, lubricants serve to reduce wear and noise while increasing gear train efficiency. Syn-Tech Ltd. gear lubricants can dramatically increase the performance of your mechanism by providing longer lasting, quieter operation over a wider operating temperature range, eliminate the need for special seals and provide the design engineer with the option to use less expensive gear materials or manufacturing processes which can lead to significant cost savings. Longer lubricant life due to increased oxidation resistance will reduced downtime for maintenance leading to overall cost savings.

Syn-Tech Ltd. supplies a wide range of synthetic and mineral oil based greases and oils proven to increase the life of your mechanism while reducing service intervals and customer down time.

The following are just some of the lubricants Syn-Tech Ltd. currently supplies for gear applications:

Product	Description	Typical Application	Temperature Range (°C)
NS-711-G	Synthetic Hybrid Li soap thickened	Synergistic blend of base fluids for enhanced metal for long life friction reduction and antiwear with mild EP under boundary layer lubrication conditions on steel components.	-54 to 140
NS-1008-FG	Synthetic Hybrid Li soap thickened	A EP/antiwear fluid grease with extremely low oil separation for use in gearboxes with marginal seals. For use on steel, bronze or plastic gears. Excellent lubrication for worm gears.	-30 to 150
NS-3508-G	Synthetic Hybrid Li Complex soap thickened	Low migration and oil separation for both ferrous and nonferrous metal gears. This product exhibits a reduced tendency to channel, providing a more consistent flow of grease to the gear interface. May be used on worm gears.	-29 to 150
NS-4405-FG	Ester Li complex thickened	A high load capacity semi-fluid grease designed for metal on metal gears in helicopter gearboxes. Fortified with extreme pressure, antiwear and corrosion additives. Applications include gearboxes, couplings and bearings.	-54 to 135
NS-6310-G	Synthetic Hybrid Li soap thickened	Synergistic blend of base fluids for enhanced metal wetting and a unique solid lubricant package for long life friction reduction and EP/antiwear under boundary layer lubrication conditions on steel components. Also an excellent lubricant for plastic gears and bearings.	-54 to 140
NS-7311-FG	Mineral Oil Li Complex thickened	An EP/antiwear fluid grease with extremely low oil separation for use in gearboxes with marginal seals. For use on steel, bronze or plastic gears. Excellent lubrication for worm gears.	-30 to 150
NS-7796-G	Ester Li soap thickened	For metal on plastic and plastic on plastic gears requiring excellent low temperature performance, excellent thermal stability, smooth feel and damping on plastics and metals. Applications include low to medium load gearboxes and similar applications.	-40 to 121

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Roller Bearing Lubricants

Rolling bearing lubricants reduce metal-to-metal contact, protect against corrosion, dissipate heat and enhance the performance of bearing seals.

Syn-Tech Ltd. roller bearing lubricants can dramatically increase the performance of your mechanism by providing longer lasting, quieter operation over wider temperature ranges. Syn-Tech Ltd. supplies a wide range of synthetic based greases and oils proven to increase bearing life while reducing service intervals and customer down time.

The following are just an example of the many high performance bearing lubricants Syn-Tech Ltd. manufactures.

Product	Description	Typical Application	Temperature Range (°C)
NS-102-G	Synthetic hydrocarbon Li soap thickened	General purpose synthetic bearing grease. Long service with rust and corrosion additives for ball and roller bearings. Low viscosity for reduced drag.	-50 to +150
NS-711-G	PAO/Glycol Li soap thickened	Provides long life wear reduction. NS-711-G was formulated for applications such as power tools, automotive starters, electric steering and power seat actuators. Also reduces friction on acme nut or ball lead screws as well as worm gear drives.	-54 to 140
NS-7896-G	Synthetic hydrocarbon Inorganic thickened	Extreme low temperature bearing grease. Applications include bearings requiring long service life, light duty gearboxes, cables, cams and similar applications.	-117 to +100

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Slide and Plain Bearing Lubricants

Syn-Tech Ltd. mechanical lubricants can dramatically increase the performance of your mechanism by providing longer lasting, quieter operation over wider temperature ranges. Syn-Tech Ltd. supplies a wide range of synthetic based greases and oils proven to increase the life of your mechanism while reducing service intervals and customer down time.

Slides and Plain Bearings

Bearing antiwear and coefficient of friction reduction are often primary characteristics to consider when choosing a bearing lubricant. Synthetic fluid based oils and greases usually perform best in thin film applications when a wide temperature range is required. The following table lists our more popular slide and plain bearing lubricants.

Product	Description	Application	Temperature Range (°C)
NS-311-G	Synthetic Hybrid Lithium complex soap thickened	High temperature grease designed to provide excellent antiwear with reduced friction on high temperature hinges and bearings. Exhibits high static "stay in place" stability by not slumping and migrating at elevated temperatures. NLGI 2.	-30 to +190
NS-711-G	Synthetic Hybrid Lithium soap thickened	Synergistic blend of base fluids provides enhanced metal wetting for long life friction reduction and antiwear. Mild EP under boundary layer lubrication conditions on steel components. NLGI 2.	-54 to +140
NS-713-G	Synthetic Hybrid Lithium soap thickened	Formulated with a synergistic blend of base fluids and a lithium complex thickener 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. NLGI 2.	-40 to 180
NS-1411-G	PAG Fumed silica thickener	High viscosity "molybdenum free" grease designed to reduce friction and lubricate sliding interfaces as well as low to medium speed ball and roller bearings operating at high temperatures. NLGI 3.	-25 to +1100
NS-3813-G	PAO Calcium sulfonate complex thickener	A food grade (NSF H1) synthetic hydrocarbon based grease with a calcium sulfonate complex thickener. This product provides high load carrying performance and reduced component wear with excellent corrosion protection for bearings and gears. NLGI 1.	-40 to 190
NS-6310-G	Synthetic Hybrid Li soap thickened	Formulated for enhanced metal wetting and a unique solid lubricant package for long life friction reduction and EP/antiwear under boundary layer conditions. Also an excellent lubricant for plastic bearings. Not for use on high speed ball and roller bearings. Designed for highly loaded applications such as power tools, automotive starters, electric steering and power seat actuators. Imparts reduced friction on acme nut lead screws as well as worm gear drives. NLGI 2.	-54 to 140
NS-9797-G	PAO Li soap thickened	For application requiring high mechanical lubricity, low friction, excellent oxidation and thermal stability, smooth feel and damping. Contains PTFE for excellent low frictional properties. Applications include low to medium load gearboxes, cables, screw actuators, sliding interfaces and similar applications. NLGI 1.	-40 to +149
NS-10895-G	PAO Li soap thickened	For applications requiring a lubricant with low drag, damping and noise control properties. Formulated with EP, antiwear, rust and corrosion protection for use in low and high temperature requirements. Applications include sliding track lubrication, light duty gearboxes, bearings, cables and plastic gears. NLGI 2.	-40 to +135

01/14 Rev.0



Electrical Contact Lubricants

Lubricants designed for electrical switch applications must protect components from wear and corrosion while providing protection against external elements such as dust, humidity, moisture, periods of non-use and wide variations in temperatures. Electrical lubricants should be chosen dependent on contact design (sliding, make and break, slip ring, roller, knife blade, etc.), contact forces, switching amperage requirements and compatibility with plastics, elastomers and metals. Low current switching with low contact forces may require a lubricant with different chemical and physical properties compared to switching high current with high contact forces.

- **Transportation**
Automotive, Truck & Bus, Aerospace, Agricultural Equipment, Construction Equipment and Marine Equipment
- **Electronics**
Office Automation, Telecommunications, Audio-Visual, Test & Measurement, and Medical Equipment
- **Commercial Controls**
HVAC, Generators, Elevators and Escalators
- **Appliances**
Kitchen Appliances, Floor Care, Power Tools, Lawn and Garden Equipment, Commercial Food Equipment, Environmental Controls, Commercial Floor Cleaning Equipment, Vending Machines, and Residential Generators
- **Industrial Controls & Factory Automation**
Motor Controls, Welding, Robotics, Compressors and Electronic Heat Controls

The following are just some of the products Syn-Tech Ltd. currently supplies for electrical applications. Many may also be used for light duty mechanical lubrication on gears, slides and bearings.

Static Connector Lubricant

Product	Description	Typical Application	Temperature Range (°C)
NS-50040-GC	Synthetic hydrocarbon, Silica thickened	An electrical connector grease for both ferrous and non-ferrous metals. Specifically formulated for long life corrosion protection, vibration damping, fretting control and moisture resistance in elevated temperature environments. Contains a UV tracer.	-40 to +149

Compatible with most engineering plastics including polycarbonate and ABS.

Wide temperature range plastics friendly electrical contact lubricants

Product	Description	Typical Application	Temperature Range (°C)
NS-396-G	Synthetic hydrocarbon, Li Soap	For low current applications requiring low arc debris, nonferrous (copper, brass, silver) corrosion protection, excellent mechanical stability, low fluid migration and low evaporation at high temperatures.	-40 to +149
NS-7696-G1	Synthetic hydrocarbon, Li Soap	For low current non-arcing sliding contact switches. Exhibits good corrosion protection on Cu, Cu alloy, Ag, Au and Ni metals in areas of high humidity. Applications include turn signal switches, window lift switches and power seat switches.	-40 to +149
NS-62100-GUV	PFPE, Inorganic Thickener	High grade PFPE grease. Low volatility and high oxidation resistance for extended durability in thin films. Extremely wide operating temperature range. Contains an ultraviolet reactive tracer.	-70 to 200

Compatible with most engineering plastics including polycarbonate and ABS.

High Performance wide temperature range electrical contact lubricants

Product	Description	Typical Application	Temperature Range (°C)
NS-1102-G	Polyol ester, Li Soap	For high current applications requiring extended operation at high temperatures, low arc switching debris, reduced sliding wear and corrosion protection on Cu, Cu alloys, Ag, Au and Ni metals. Excellent mechanical stability, low fluid migration, and low evaporation at high temperatures.	-40 to +150
NS-2213-G	Ester Inorganic thickened	For high current applications requiring extended operation at high temperatures, low arc switching debris, reduced sliding wear and corrosion protection on Cu, Cu alloys, Ag, Au and Ni metals. Excellent mechanical stability, low fluid migration, and low evaporation at high temperatures. Good water resistance.	-40 to +150
NS-2402-G	Polyol ester, Li Soap	For high current applications requiring low arc switching debris, durability and corrosion protection for Cu, Cu alloy, Ag, Au and Ni metals. Excellent mechanical stability, low fluid migration, good mobility at low temperatures and low evaporation at high temperatures	-40 to +141
NS-2802-G	Polyol ester, Li Soap	For low and high current applications with excellent protection against sliding contact wear. Good protection against nonferrous metal corrosion due to humidity.	-40 to +149
NS-8605-G	Polyol ester, Organic Polymer	For low and high current applications up to 25 amps with excellent protection against sliding contact wear. Very good protection against nonferrous metal corrosion due to humidity.	-40 to +149

These products are not compatible with ABS, polycarbonate, polyester, PPO, or PVC plastics, or buna S, butyl, or neoprene elastomers.

Wide temperature range low arc debris contact lubricants

Product	Description	Typical Application	Temperature Range (°C)
NS-1702-G	Glycol, Inorganic thickened	Non-melting grease for high current switching with low arc debris. Inhibited for Cu and Ag corrosion with good mechanical and chemical stability. Applications include high current switches, potentiometers and similar devices.	-40 to +149
NS-113-G	Glycol, Li Soap	High current switching with low arc debris. Inhibited for Cu and Ag corrosion with enhanced contact antiwear. Also exhibits good mechanical and chemical stability. Applications include high current switches, potentiometers and similar devices.	-40 to +120
NS-8705-G	Glycol, Organic Polymer	High current switching with low arc debris. Inhibited for Cu and Ag corrosion with good contact antiwear. Also exhibits good mechanical gel stability with good moisture resistance. Applications include high current switches, potentiometers and similar devices.	-40 to +120

These products are not compatible with ABS, polycarbonate, polyester, PPO, or PVC plastics, or buna S, butyl, or neoprene elastomers.

09/13 Rev.5

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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.

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Food Grade Lubricants

Syn-Tech Ltd. food grade lubricants are certified by NSF international for use on food processing machinery. Formulations are available for gears, slides and bearings. Custom formulations are also available.

Product Name	Description	Typical Application	Temperature Range °C
NS-10204-FG	Synthetic Hydrocarbon Silica gelled	Low drag lubrication with high viscometric stability, low evaporation and a wide operating temperature range. This product possesses high resistance to oxidation and moisture. Suitable for metal, plastic and rubber antiwear. NSF registration number 136266	-40 to 120
NS-407-G	Synthetic Hydrocarbon Silica gelled	Non-melting thickener and corrosion protection for ferrous and non-ferrous metals insures long life lubrication. PTFE enhanced. NSF registration number 139308	-40 to 205
NS-4209-G	Synthetic Hydrocarbon Aluminum complex	General purpose food grade grease with anti-wear protection. Formulated with a water washout resistant aluminum complex thickener and additives for corrosion prevention for metals. NSF registration number 142616	-40 to 200
NS-1813-G	Synthetic Hydrocarbon Silica gelled	High temperature non-melting thickener and corrosion protection for ferrous and non-ferrous metals insures long life lubrication. Fortified for extreme pressure and antiwear additives for highly loaded applications. NSF registration number 148137	-30 to 125
NS-1913-G	Vegetable oil Silica gelled	Designed to be resistant to hexane solvent washout. It is not compatible with most mineral oil and synthetic greases. Non-melting thickener. NSF registration number 148139	-32 to 82
NS-507-G	Synthetic Hydrocarbon Clay gelled	Non-melting grease for ball and roller bearings. NSF registration number 139307	-60 to 177
NS-62320-H	PFPE Silica Gelled	High viscosity PFPE grease for extended life of bearings and slides. Chemically inert with most acids, fuels, and oxidizing agents. Protects ferrous metals against rust. NSF registration number 133584	-55 to 275
NS-62320-HSFH1	PFPE Silica Gelled	High viscosity PFPE grease for extended life of bearings and slides. Chemically inert with most acids, fuels, and oxidizing agents. NSF registration number 144136	-55 to 275
NS-2110-F	Mineral Oil Syn hydrocarbon	ISO 460. Antiwear oil for gearboxes and chains. This product contains a unique blend of white mineral oil, synthetic base fluids and tackifier for high film strength and excellent oxidation resistance while protecting against rust and corrosion. NSF registration number 143725	-5 To 135
NS-1713-G	Synthetic Hydrocarbon Aluminum Complex	An ISO 220 based NLGI 2-3 synthetic hydrocarbon grease with a high temperature and water washout resistant aluminum complex thickener. Formulated for general-purpose antiwear and corrosion protection. For use on gears, plain bearings and hinges. NSF registration number 148138	-40 to 149
NS-3813-G	Synthetic Hydrocarbon CaSul Complex	ISO 48 synthetic hydrocarbon base oil with a calcium sulfonate complex thickener. Provides superior performance in food processing plant machinery. High resistance to water and steam. Provides a durable anti-rust film. NLGI 1 consistency. NSF registration pending	-25 to 200
NS-3110-680FG	Synthetic Hydrocarbon	ISO 680. Wide temperature range synthetic gear and bearing oil. Formulated with high viscosity base oils for excellent shear stability. NSF Reg. No. 143726	-30 to 115

Product	H-1	Grease	Fluid	Semi-fluid	-40°C operation	Gears	Slides, Plain Bearings	Roller Bearings	Cables	Plastic on Plastic	Metal on Metal	Plastic on Metal	PTFE Enhanced	Plastics Friendly (ABS, PC Compatible)
NS-10204-FG	X	X		X	X	X	X		X	X	X	X	X	X
NS-407-G	X	X			X	X	X		X	X	X	X	X	X
NS-4209-G	X	X			X	X	X	X	X	X	X	X		X
NS-1813-G	X	X				X	X	X	X	X	X	X		X
NS-1913-G	X	X				X	X	X	X		X			
NS-507-G	X	X			X	X	X	X	X	X	X	X		X
NS-62320-H	X	X			X	X	X	X	X	X	X	X		X
NS-62320-HSFH1	X	X			X		X	X	X	X	X	X		X
NS-2110-F	X		X			X	X	X	X	X	X	X		X
NS-1713-G	X	X			X	X	X	X		X	X	X		X
NS-3813-G	X	X			X	X	X		X	X	X	X		X
NS-3110-680FG	X	X		X		X	X	X	X	X	X	X		X

9/13 Rev1



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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.

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Syn-Tech Ltd.

The Finest Specialty Lubricants in the World



Pneumatic Cylinder Lubricants

Choosing the proper lubricant to increase performance of your device and to extend the life of your design is very important. These seal lubricants provide reduced friction and drag for smooth breakaway at low air pressures, reduced wear on metal and plastics and increased life of the design with improved overall performance.

Product Name	Description	Typical Application	Temperature Range °C
NS-202-F	Silicone oil	Silicone oil for oil-mist lubrication systems.	-50 to +177
NS-913-G	Synthetic Lithium Complex thickener	High lubricity for low break away pressure and extended seal life. Good stability at high temperatures. Additives for rust and corrosion prevention.	-40 to +180
NS-5606-G	Semi-Synthetic, Lithium Complex Thickened	High lubricity for extended seal life and low break away pressure. Good stability at high temperatures. Additives for rust and corrosion prevention.	-29 to +180
NS-7505-G	Synthetic Hydrocarbon, Organic Polymer Thickened	Fully synthetic water-resistant grease. High stability at high temperatures. Additives for rust and corrosion prevention.	-45 to +200
NS-9201-FG	Silicone, Li soap	Silicone oil based fluid grease designed to lubricate piston seals in air cylinders. Long life, low evaporation with low breakaway pressures.	-50 to +177
NS-10197-GS	Silicone, Inorganic thickener	Silicone oil based fluid grease designed to lubricate piston seals in air cylinders. Long life, low evaporation with low breakaway pressures. NSF H1 approved .	-50 to +177

01/14 Rev 5



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Our Expertise

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Syn-Tech Ltd.

The Finest Specialty Lubricants in the World



Aerospace Lubricants

Syn-Tech Ltd. has developed lubricants that meet strict military specifications and requirements including jet aircraft and helicopter applications. These lubricants have provided excellent service in extreme environments.

Syn-Tech Ltd. Aerospace lubricants provide the following characteristics: Wide operating temperature ranges, excellent lubricity, extreme pressure and antiwear properties that increase load capacity in gears and drive shafts, excellent oxidation, corrosion and water washout resistance.

Product	Description	Typical Application	Spec.	Temperature Range °C
NS-3913-G1 NSN 9150-00-506-8497	Ester, Clay thickened	Fortified with extreme pressure, antiwear and corrosion additives, this lubricant was designed for extreme gear coupling applications under high temperature, high rpm and heavy loads with potential for misalignment and exposure to harsh environmental conditions. Applications include gear couplings for helicopters, gearboxes, splines, differentials, and screw jacks.	Bell Helicopter 204-040-755-055	-40 to +176
NS-4405-FG NSN 9150-01-212-1409	Ester, Li complex thickened	A high load capacity semi-fluid grease designed for helicopter gearboxes. Fortified with extreme pressure, antiwear and corrosion additives for extreme stability under high centrifugal and rotational speeds. Applications include gearboxes, couplings, drives and bearings.	Hughes/ McDonnell Douglas HMS 20-1155	-54 to +135
NS-6075-G NSN 9150-00-823-8049	Petroleum, Clay thickened	A versatile, extreme pressure, anti-wear and anti-fretting lubricant. Fortified with molybdenum disulfide and graphite to protect metal surfaces during periods of high loads and extreme pressure. Excellent water washout, rust and oxidation resistance with good mechanical stability. Applications include splines and similar applications.	Sundstrand MP01AA10	-20 to +150
NS-6074-F NSN 9150-01-411-6545	Methacrylate polymer	O-ring lubricant. Used to lubricate O-rings prior to pressing them into cavities, preventing chafing or tearing of the O-ring surface. It is also used as an assembly aid to "stick hold" parts together in multi-component mechanisms such as gearboxes, pumps and engine accessories.	Sundstrand 57622	-
NS-5806-G	Ester, Clay thickened	NS-5806-G is a non-melting extreme pressure grease designed for lubrication of aircraft slides and bearings. Fortified with molybdenum disulfide for excellent protection of sliding steel on steel against wear and seizure. Gelled with a non-melting bentonite thickener for extended operation at high temperature.	Hamilton Sundstrand MS02.63	-73 to 150

2/08 Rev.3

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Our Expertise

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Fluor-Tech®

Full Spectrum Lubricants

The Fluor-Tech® line of PFPE (perfluoroalkylpolyether) high performance greases and fluids, manufactured by Syn-Tech Ltd., offer the following advantages:

- Operating temperature ranges from -110°F to 800°F
- Chemically inert
- Nonflammable
- Insoluble in water
- Extremely low evaporation rates
- Extends lubrication intervals reducing down time

- Innovative additives that can replace sodium nitrite
- Neutral to most plastics and elastomers
- NSF H1 and H2 rating for food processing
- Custom formulations available

Formulated from the highest quality PFPE fluids, these lubricants offer enhanced performance for:

- Control valves exposed to oxidizers, caustics, and corrosive chemicals
- Water immersed bearings and valves
- Oven cart bearings
- Clean room bearings
- Oxygen handling equipment
- Difficult or impossible to re-lube situations

61000 Series

The 61000 Series is a low cost multipurpose PFPE line of greases and fluids. All products in this series contain innovative liquid EP, antiwear and antirust additives. This series offers low volatility on metal and plastic applications with a wide operating temperature range. Blends with a CFC-free, non-toxic, non-flammable solvent carrier to aid application are available. An ultraviolet tracer is available for thin film applications. Most can be custom modified to a different NLGI grade for grease or for custom viscosity for fluids.

	NS-61015	NS-61022	NS-61100	NS-61150	NS-61320	NS-61460	NS-61500
Fluid Properties							
ISO grade	15	22	100	150	320	460	-
Viscosity @ 40°C	14.7	20.9	78	150	339	427	513
Viscosity @ 100°C	3.2	4	9.7	15.9	32	41	48
VI	68	77	102	110	133	146	151
Pour Point (°C)	-58	-50	-35	-30	-25	-25	-20
Evap. Loss (%) 149°C for 22 hrs	---	21	1.9	0.8	0.4	>.1	>.1
Grease Properties							
NLGI grade	2	2	2	2	2	2	2
Dropping point (°C)	>260	>260	>260	>260	>260	>260	>260

Product suffixes:

- F: Fluid
- G: Grease
- H: Translucent higher temperature capability grease

-P: Excellent Plastics compatibility

- A: Molybdenum disulfide and graphite for smooth feel on metals
- UV: Ultraviolet tracer added

62000 Series

The 62000 Series is a high grade PFPE line of greases and fluids. All products in this series contain innovative liquid EP, antiwear and antirust additives. This series offers excellent operation over a wide temperature range, excellent viscosity indexes, and low volatility on metal and plastic applications. Blends with a CFC-free, non-toxic, non-flammable solvent carrier to aid application are available. An ultraviolet tracer is also available for thin film applications. Most can be custom modified to a different NLGI grade for grease or for custom viscosity for fluids.

	NS-62015	NS-62032	NS-62100	NS-62150	NS-62320
Fluid Properties					
ISO grade	15	32	100	150	320
Viscosity 40°C	16.9	31.8	85	159	312
Viscosity 100°C	5.1	9.1	22.1	56	87
VI	267	289	288	332	344
Pour Point (°C)	-85	-70	-75	-65	-60
Evap. Loss (%) 149°C for 22 hrs	6.5	1	0.8	>.1	>.1
Evap. Loss (%) 204°C for 22 hrs	---	>10	3	0.7	0.4
Grease Properties					
NLGI grade	2	2	2	2	2
Dropping point (°C)	>260	>260	>260	>260	>260

Product suffixes:

- F: Fluid
- G: Grease
- H: Translucent higher temperature capability grease
- P: Excellent Plastics compatibility
- A: Graphite for smooth feel on metals
- M: Moly for extra high loads
- UV: Ultraviolet tracer added



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63000 Series

The 63000 Series is a superior quality PFPE line of greases and fluids. All products in this series contain innovative liquid EP, antiwear and antirust additives. This series offers excellent volatility on metal and plastic applications with excellent low and high temperature properties. Blends with a CFC-free, non-toxic, non-flammable solvent carrier to aid application are available. An ultraviolet tracer is available for thin film applications. Most can be custom modified to a different NLGI grade for grease or for custom viscosity for fluids.

Fluid Properties	Typical Data			
	NS-63015	NS-63100	NS-63150	NS-63320
ISO grade	15	100	150	320
Viscosity 40°C	17.9	90	155	355
Viscosity 100°C	5.7	28.3	50	98
VI	303	342	359	346
Pour Point (°C)	-90	-80	-75	-62
Evaporation Loss (%) 149°C for 22 hrs	6.5	0.8	>.1	>.1
Evaporation Loss (%) 204°C for 22 Hrs	---	1.2	0.4	0.2
Grease Properties				
NLGI grade	2	2	2	2
Dropping point (°C)	>260	>260	>260	>

Product suffixes:

- F: Fluid
- G: Grease
- H: Translucent higher temperature capability grease
- P: Excellent Plastics compatibility
- A: White graphite for smooth feel on metals
- B: Sodium nitrite for rust at high temperatures
- C: White graphite & sodium nitrite
- UV: Ultraviolet tracer added

64000 Series

The 64000 Series greases were formulated for extended high temperature (>550°F) operation. Applications might include oven chains and bearings, kiln trolley bearings, molding equipment and more. Contains metal EP, antiwear and rust additives.

Fluid Properties	Typical Data	
	NS-64150	NS-64320
ISO grade	150	320
Viscosity 40°C	155	355
Viscosity 100°C	50	98
VI	359	346
Pour Point (°C)	-75	-62
Evaporation Loss (%) 149°C for 22 hrs	>.1	>.1
Evaporation Loss (%) 204°C for 22 hrs	.4	.2
Grease Properties		
NLGI grade	2	2
Dropping point (°C)	>260	>260

Product suffixes:

- UV: Ultraviolet tracer added

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Our Expertise

Syn-Tech Ltd. has evolved products that satisfy a diverse selection of applications. 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 sales office for assistance in selecting a lubricant for your application.



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Syn-Tech Ltd.

The Finest Specialty Lubricants in the World



Corporate Overview

Syn-Tech Ltd. is a privately held corporation founded in 1968 with a commitment to formulate and manufacture high quality specialty lubricants for worldwide distribution. We work hand-in-hand with design engineers to formulate and develop a lubricant that meet or exceed the requirements for the application. While our primary focus is the automotive industry we also specialize in lubricants for the aerospace, defense, industrial, medical and commercial industries. In addition to formulating for individual applications, we manufacture lines of lubricants with varying viscosities, thickeners, and basefluids including H-1 and H-2 food grade lubricants. Every lubricant is developed in our research laboratory with strict confidence assuring your design will not be compromised. It's what we do, what we're about... Uncompromised Quality, Unconditional Commitment.

Technology

Syn-Tech Ltd's products are based on a full range of synthetic chemistries, including PAO, ester, glycol, silicone and PFPE based products. We also work closely with top lubricant component manufacturers for design and field trials.

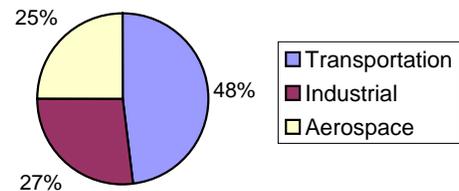
Research and Development

A full range of engineering expertise is used to develop products at Syn-Tech Ltd. We are constantly analyzing new materials to stay on the cutting edge of lubricant technology. Mechanical and Electrical engineers work closely with product formulators to ensure that products are being developed properly the first time to reduce testing burden at the OEM. Our Engineers have the ability to design test stands in-house to run parallel testing with the customer. As a service to our customers we also run plastics and elastomer compatibility screening at no charge.

Operations

Syn-Tech Ltd. is headquartered in Addison, Illinois, just minutes away from major highway's, airports and waterways. Our facilities includes administrative offices, R&D, manufacturing, quality testing and packaging. Our products are available in a wide variety of packages, including pillow packs, blister packs, syringes, jars, cartridges, pails, drums and totes. Packaging is done on site. We are able to custom color, custom label, and deaerate products to our customers specific requirements. Syn-Tech Ltd. is ISO 9001 Registered.

Major Markets Served - 2010



Lubricant Type Distribution - 2010

