

FACTORY MAX
WE CAN MAXIMIZE YOUR PROFIT

LUBE

WATER TREATMENT

2021

LUBRICAN

 World Chemical Co., Ltd.

LUBRICAN is formed under the cooperation of Factory Max's engineers with leading suppliers from various countries. Together we developed industrial oils for the metal forming process and chemicals for the metal parts manufacturing process. We designed coolants that are especially suitable for the environment and usage in Thailand. Our goals are to optimize the use of coolant, reduce the waste arising from coolant, reduce environmental impacts along with reasonable price in order to maximize customer's profit.

In product section, Lubrican focuses on metalworking fluids and chemicals which use in metal forming process including;

- Soluble Oil
- Semi Synthetic
- Synthetic
- Neat Oil
- Oil Mist
- Die Release Agent
- Plunger Lubricant
- Cleaner
- EDM Oil



LUBRICAN

Lube Contents

- Metalworking Fluids
- Die Release Agent
- Plunger Lubricant
- Cleaner
- EDM Oil

Water Treatment Contents

- Wasted Water Treatment
- Oil Skimmer

LUBRICAN



G-Lube Plus

Extends Tools Life

G-Lube Plus is a high-lubricity, high oil content, excellent cooling, semi-synthetic. The formula delivers extended tools life of cutting versus previous generation semi synthetic for working with carbon steel workpiece including cast iron workpiece and extend sump life.

G-Lube

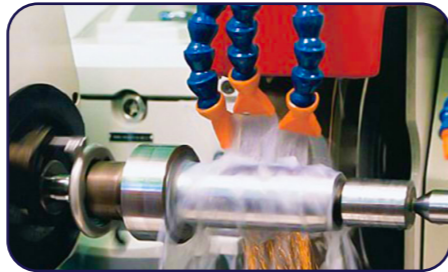
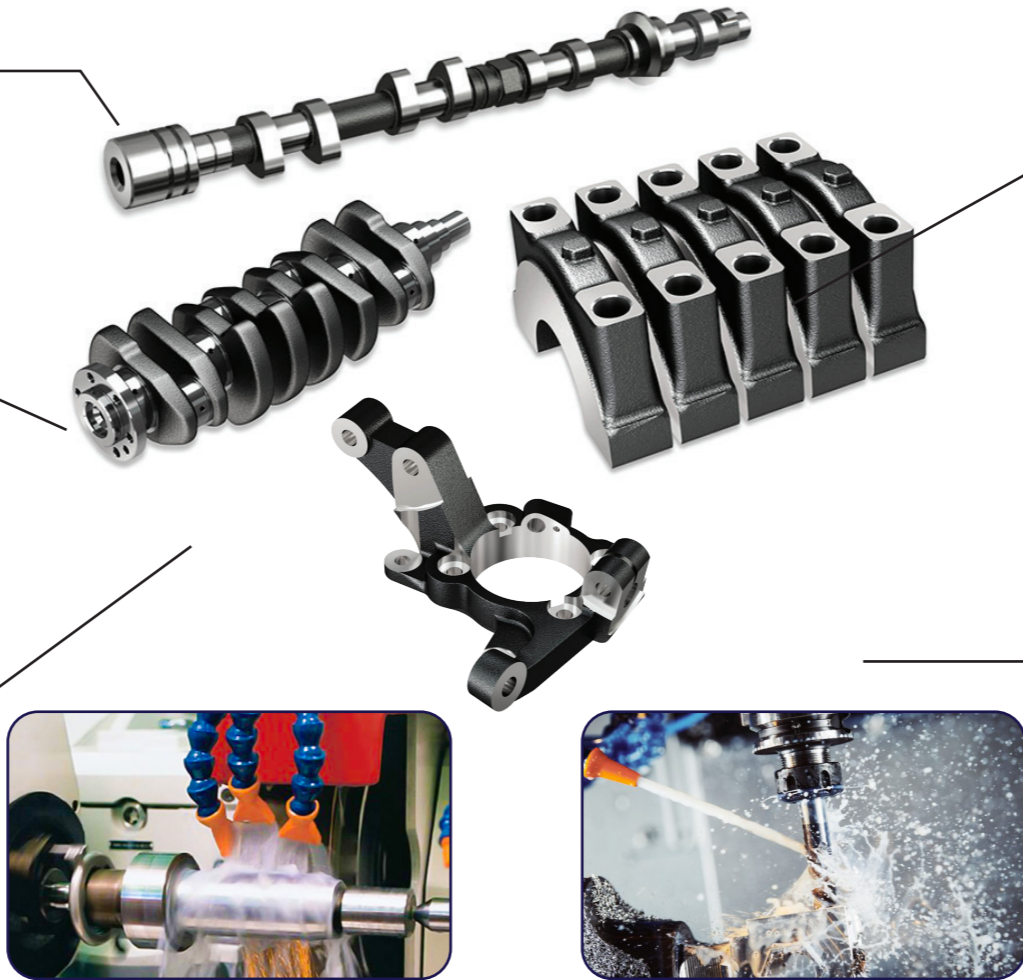
Extends Sump Life

G-Lube is an excellent cooling, low foaming, good-lubricity, semi-synthetic. The formula delivers extended sump life, while it is particularly well suited for machining and grinding cast iron workpiece. It provides high degree of cleanliness.

SY G2B

Grinding Fluids-Synthetic

SY G2B is a clear fluid, virtually odorless, synthetic coolant with excellent corrosion inhibiting qualities and heat dissipating. Recommended for grinding operations on cast iron and steels. It provides metal fines setting.



SY GC2C

Cutting & Grinding Fluids-Synthetic

SY GC2C is a clear fluid, high lubricity, virtually odorless, the formula delivers excellent corrosion inhibiting qualities and optimized combination of cooling and lubricity for cast iron, steel machining and grinding applications.

NO GC2B-CI

Cast Iron - Cutting Oil

NO GC2B-CI is a cast iron straight cutting oil formulated using renewable vegetable esters. For use in machining operations of cast iron. It is especially effective in turning, milling, tapping and drilling applications due to its reasonably low viscosity, lubricity and EP performance.

Product name	Appearance [5%]	pH [5%]	Recommended Concentration	Benefits
G-Lube Plus SSH GC0C Extends Tools-Life	White Emulsion	10	5-8%	<ul style="list-style-type: none"> • Extends cutting tool life • Bio stable control, extends sump life • Provides excellent corrosion protection on all ferrous metals • Improves problem of allergy • Keeps machines clean and reduces maintenance cost
G-Lube SSL GC0A Extends Sump-Life	Clear Liquid	9.5	5-8%	<ul style="list-style-type: none"> • Bio stable control, extends sump life • Provides excellent corrosion protection on all ferrous metals • Low foaming • Improves problem of allergy • Keeps machines clean and reduces maintenance cost
SY G2B Grinding Fluids-Synthetic	Clear Liquid	9.3	6-10%	<ul style="list-style-type: none"> • Very low chemical odor • Low foaming • Clear fluids, clear working solution • Extends sump life and very good tramp oil rejection • Easy recycling or disposal with conventional techniques

Product name	Appearance [5%]	pH [5%]	Recommended Concentration	Benefits
SY GC2C Cutting & Grinding Fluids-Synthetic	Clear Liquid	9.5	6-10%	<ul style="list-style-type: none"> • High lubricity, compatible with machining and grinding applications • Very low chemical odor • Low foaming • Clear fluids, clear working solution • Extends sump life and very good tramp oil rejection • Easy recycling or disposal with conventional techniques

Product name	Appearance	Viscosity@ [cSt]	Flash Point [°C]	Benefits
NO GC2B-CI Cast Iron - Cutting Oil	Light Yellow Liquid	7-9	> 150	<ul style="list-style-type: none"> • High lubricity and extreme pressure lubrication • Provides an excellent surface finish • Low viscosity, low rate of oil loss from metal chip • Low oil mist, low sticky and environmentally friendly • Provides excellent lubrication and cooling for machining

Part: Carbon steel, Cast iron, Forging steel

G-Lube N Plus

High-Lubricity

G-Lube N Plus is a high-lubricity, high oil content, excellent cooling, semi-synthetic. The formula delivers extended sump life and optimized combination of cooling and lubricity for aluminum casting, aluminum alloy, titanium, copper, stainless steel, plastics and composites machining applications.

G-Lube N

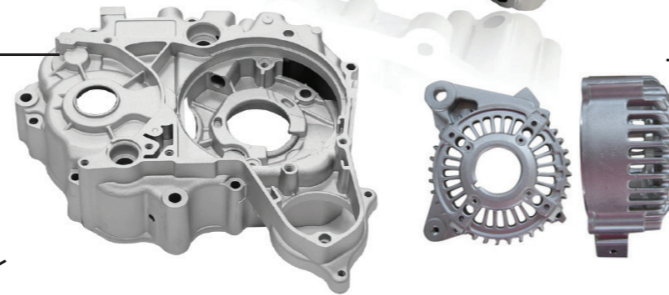
General Purpose Semi-Synthetic

G-Lube N is a general purpose semi-synthetic fluid, good-lubricity, excellent cooling, low foaming. The formula delivers optimized combination of cooling and lubricity for aluminum casting, aluminum alloy, copper, stainless steel, plastics and composites machining and grinding applications.

SY GCIC

Cutting & Grinding Fluids-Synthetic

SY GCIC is a high lubricity, virtually odorless, the formula delivers excellent corrosion inhibiting qualities for ferrous and non-ferrous, optimized combination of cooling and lubricity for aluminum casting, aluminum alloy, copper, cast iron, steel, plastics and composites, compatible with machining and grinding applications.



SO GCID-N

High-Performance Emulsion Fluid

SO GCID-N is a high quality, excellent emulsion stability, low foaming, high lubricity soluble oil which requires minimal maintenance. The formula delivers extended sump life and optimized combination of cooling and lubricity for aluminum alloy, titanium, copper, stainless steel, plastics and composites machining applications.

SO GCIC

General Purpose Emulsion Fluid

SO GCIC is a general-purpose emulsion, superior lubricity and a higher oil content. The high quality of chemical and mechanical lubricity in this product handle the tough machining. It has broad application in machining on a wide range of materials including aluminum alloy, copper, stainless steel, plastics and composites.

NO GCIB-AL

Aluminum - Cutting Oil

NO GCIB-AL is an aluminum machining straight cutting oil formulated using renewable vegetable esters. For use in machining operations of aluminum casting, aluminum alloy and including copper. It is especially effective in turning, milling, tapping and drilling applications due to its reasonably low viscosity, lubricity and EP performance.

Product name	Appearance [5%]	pH [5%]	Recommended Concentration	Benefits
G-Lube N Plus SSH GC0C-N High-Lubricity	White Emulsion	9.4	5-8%	<ul style="list-style-type: none"> • High-Lubricity, improves surface quality • Bio stable control, extends sump life • Compatible with a wide range of materials • Provides corrosion inhibitor on ferrous and non-ferrous metals • Keeps machines clean and reduces maintenance cost
G-Lube N SSL GC0A-N General Purpose	Clear White Liquid	9.0	5-8%	<ul style="list-style-type: none"> • Bio stable control, extends sump life • Compatible with a wide range of materials • Low foaming • Provides corrosion inhibitor on ferrous and non-ferrous metals • Improves problem of allergy • Keeps machines clean and reduces maintenance cost
SY GCIC Cutting & Grinding Fluids-Synthetic	Yellow Clear Liquid	8.9	8-10%	<ul style="list-style-type: none"> • High lubricity, compatible with machining and grinding applications • Compatible with a wide range of materials • Clear fluids, clear working solution • Extends sump life and very good tramp oil rejection • Easy recycling or disposal with conventional techniques

Product name	Appearance [5%]	pH [5%]	Recommended Concentration	Benefits
SO GCID-N High-performance emulsion Fluid	Milky	9.5	4-8%	<ul style="list-style-type: none"> • Bio stable control, extends sump life • High-Lubricity, improves surface quality • Compatible with a wide range of materials • Low foaming • Provides corrosion inhibitor on ferrous and non-ferrous metals • Improves problem of allergy
SO GCIC General Purpose emulsion Fluid	Milky	9.8	4-8%	<ul style="list-style-type: none"> • High-Lubricity, improves surface quality • Compatible with a wide range of materials • Improves problem of allergy

Product name	Appearance	Viscosity@ [cSt]	Flash Point [°C]	Benefits
NO GCIB-AL Aluminum - Cutting Oil	Light Yellow Liquid	7-9	> 150	<ul style="list-style-type: none"> • Excellent lubricity and extreme pressure lubrication • Provides an excellent surface finish • Low viscosity, low rate of oil loss from metal chip • Low oil mist, low sticky and environmentally friendly • Provides excellent lubrication and cooling for machining

Part: Aluminum casting, aluminum alloy, copper



General Purpose

NO GC2B : Ferrous General Purpose

NO GC2B is a general purpose straight cutting oil formulated using high performance additives. It can be used for a variety of metal cutting, especially suitable for turning, milling, drilling, tapping and reaming processes. Also suitable for ferrous metal applications such as steel, stainless steel and steel alloy.

NO GC1B : Non-Ferrous General Purpose

NO GC1B contains a balanced blend of highly refined mineral oils, cutting oil formulated with high performance additives. It can be used for a variety of metal cutting, especially suitable for turning, milling, drilling, tapping and reaming processes. Also suitable for multi metal applications such as copper alloy, aluminum alloy and carbon steel.

Automatic Bar Feeder

NO GC2B-EP : Bar Feeder-Cutting Oil

NO GC2B-EP contains a balanced blend of highly refined mineral oils, cutting oil formulated with high performance additives. Optimized combination of cooling and lubricity for steel, carbon steel machining applications and including steel with stainless ingredients. **NO GC2B-EP** is especially effective in bar feeder machine.

NO GC1B-EP : Bar Feeder-Cutting Oil Copper & Aluminum Alloy

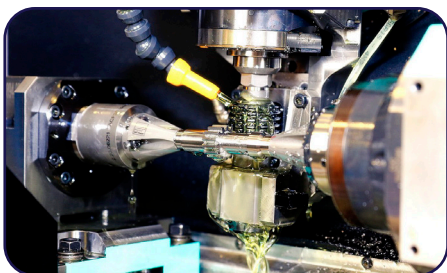
NO GC1B-EP contains a balanced blend of highly refined mineral oils, cutting oil formulated with high performance additives. Optimized combination of cooling and lubricity for copper, brass and aluminum alloy machining applications. **NO GC1B-EP** is especially effective in bar feeder machine, turning, drilling, tapping applications.



Tapping

NO TP2D : Tapping-Cutting Oil

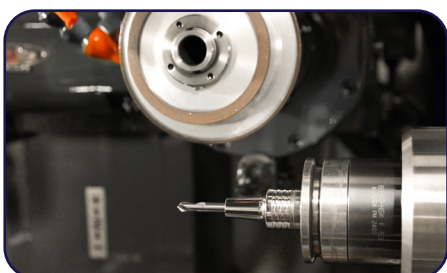
NO TP2D is a heavy duty, tapping cutting oil formulated with high performance ester-based additives and using renewable vegetable esters. It can be used for a variety of metal cutting processing, especially suitable for cutting steel. **NO TP2D** is also suitable for Tapping processes.



Gear Cutting

NO HB2B : Gear-Cutting Oil

NO HB2B is a heavy duty, gear cutting oil formulated with high performance ester-based additives. It can be used for a variety of metal cutting processing, especially suitable for gear steel. **NO HB2B** is also suitable for gear hobbing processes.



Tool grinding

NO TG2C : Tools-Grinding Oil

NO TG2C contains a balanced blend of hydrocracked quality base oils, clear liquid, higher flash point, reduced emissions compared to mineral oils and low viscosity. Optimized combination of cooling and lubricity for tungsten carbide and high-speed steel (HSS) grinding applications.



Oil Mist

NO OM1C : Oil Mist

NO OM1C is an oil mist highly refined mineral oils, low viscosity, oil mist formulated using renewable vegetable esters. For use in machining operations of multi metal, steel, aluminum alloy and including copper. It is especially effective in milling and drilling applications.

Neat Oil

Product name	Appearance	Viscosity@ [cSt]	Flash Point [°C]	Benefits
NO GC2B Ferrous General Purpose	Clear Yellow Liquid	20 - 23	> 190	<ul style="list-style-type: none"> • Low oil mist • Excellent extreme pressure lubrication • Compatible with ferrous metal applications • Provides an excellent surface finish • Provides excellent lubrication and cooling for machining
NO GC1B Non-Ferrous General Purpose	Clear Yellow Liquid	20 - 23	> 190	<ul style="list-style-type: none"> • Low oil mist • Excellent extreme pressure lubrication • Compatible with a wide range of materials • Provides an excellent surface finish • Provides excellent lubrication and cooling for machining
NO GC2B-EP Bar Feeder-Cutting Oil	Light Yellow Liquid	21 - 24	> 200	<ul style="list-style-type: none"> • Provides anti-oxidant, low oil mist • Low smoke • Provides high lubricity and extreme pressure lubrication • Provides an excellent surface finish • Provides excellent lubrication and cooling for machining
NO GC1B-EP Bar feeder-Cutting oil Copper & Aluminum Alloy	Yellow Liquid	21 - 24	> 200	<ul style="list-style-type: none"> • Provides anti-oxidant, low oil mist • Low smoke • Compatible with a wide range of materials • Provides high lubricity and extreme pressure lubrication • Provides an excellent surface finish • Provides excellent lubrication and cooling for machining
NO TP2D Tapping-Cutting Oil	Yellow Liquid	22 - 25	> 190	<ul style="list-style-type: none"> • Provides high lubricity, wear resistance • Provides an excellent extreme pressure lubrication • Provides an excellent surface finish • Excellent lubrication and cooling for machining • Low oil mist
NO HB2B Gear-Cutting Oil	Yellow Liquid	30 - 34	> 200	<ul style="list-style-type: none"> • Provides high lubricity and extreme pressure lubrication • Provides an excellent surface finish • Provides excellent lubrication and cooling for machining • Low oil mist
NO TG2C Tools-Grinding Oil	Light Liquid	4 - 6	> 140	<ul style="list-style-type: none"> • Low smoke and oil mist • Low viscosity and high flash point • Compatible with tungsten carbide and high-speed steel (HSS) • Provides anti-oxidant, good wetting, better surface quality • Provides an excellent surface finish • Higher grinding wheel life
NO OM1C Oil - Mist	Light Liquid	6 - 8	> 150	<ul style="list-style-type: none"> • Low viscosity and high flash point • Compatible with a wide range of materials • Provides anti-oxidant, good wetting • Provides an excellent surface finish

Water Based Release Agent

Product name	Type	Die Temp Range	Application
LUBRICAN 9046-25	Silicone	150 - 350 °C	<p>LUBRICAN 9046-25 is a general-purpose release agent formulated with synthetic polymers, emulsifiers and water soluble additives resulting in a high-performance release agent designed for aluminum, zinc and magnesium. This product will extract some heat from the die, however it will encourage metal flow while also providing an excellent release.</p> <ul style="list-style-type: none"> • Enhanced Metal Flow • Excellent Release • Painting and Plating Compatible • Non-Staining Or Smoking • Thin Wall Castings • Low Wax Buildup • Excellent Wetting Ability
LUBRICAN 9050-25	Silicone	150 - 350 °C	<p>LUBRICAN 9050-25 is a general-purpose release agent formulated with synthetic polymers, emulsifiers and water-soluble additives resulting in a high-performance release agent designed for aluminum, zinc and magnesium. LUBRICAN 9050-25 provides great release for small and large castings.</p> <ul style="list-style-type: none"> • Excellent Release • Painting and Plating Compatible • Non-Staining or Smoking • Non-Staining or Smoking • High Solids Content • Low Wax Buildup • Excellent Wetting Ability
LUBRICAN 9050NS-35	Non-Silicone	150 - 325 °C	<p>LUBRICAN 9050NS-35 is a general-purpose silicone free release agent formulated with emulsifiers and water soluble additives resulting in a great performance release agent designed for aluminum and zinc. LUBRICAN 9050NS-35 provides great release for small and medium castings.</p> <ul style="list-style-type: none"> • Non-Silicone • Great Release • Painting and Plating Compatible • Low Wax Buildup • High Solids Content • Excellent Wetting Ability
LUBRICAN 9002NS-35	Non-Silicone	100 - 300 °C	<p>LUBRICAN 9002NS-35 is formulated without any silicone oil to prevent any paint adhesion and plating problems. It is best used on electronics parts or any other part with very strict paint adhesion specifications. This technology contains synthetic polymers, emulsifiers, and other water-soluble additives for use on aluminum, zinc, and magnesium castings.</p> <ul style="list-style-type: none"> • Non-Silicone • Great Release • Painting and Plating Compatible • Excellent Wetting Ability • High Solids Content



Product name	Color	Size	Melting Point	Application
SHOTBEADS GR-6 Graphite type	Black	Approx . 2mm	Approx . 90°C	<p>SHOTBEADS GR-6 are used in cold chamber, high pressure die cast machines for plunger lubrication. They are small, spherical, prill wax beads. They are designed to melt upon entering the plunger sleeve, and to rapidly coat the inside walls. SHOTBEADS GR-6 have been proven to increase plunger sleeve and piston/tip life compared to oil and water based lubricants.</p> <p>Suggested dosing quantity per cycle is 0.5 – 1.0 grams per each inch of piston/tip inside diameter depending on operational temperatures and machine tonnage.</p> <ul style="list-style-type: none"> • Extra Lubricity Additives • Contains Graphite

SHOTBEADS 1
Non Graphite type

Light brown
to light tan

Approx . 2mm

Approx . 105°C

SHOTBEADS 1 are used in cold chamber, high pressure die cast machines for plunger lubrication. They are small, spherical, prill wax beads. They are designed to melt upon entering the plunger sleeve, and to rapidly coat the inside walls. SHOTBEADS 1 have been proven to increase plunger sleeve and piston/tip life compared to oil and water based lubricants.

Suggested dosing quantity per cycle is 0.5 – 1.0 grams per each inch of piston/tip inside diameter depending on operational temperatures and machine tonnage.

- Extra Lubricity Additives



Product name	Appearance	pH	Application
G-CLEAN General purpose cleaner	White Clear Liquid	12.6	<p>G-CLEAN is an industrial cleaner, water soluble, heavy duty cleaner-degreaser formulated with an exceptional mild yet tough multicomponent surfactant-emulsifier system designed to achieve superior cleaning and degreasing capabilities. Suitable for removing oil, grease and dirt from material surface. It has provided residue free surfaces free of sticky or slick films.</p> <ul style="list-style-type: none"> • Heavy duty cleaner-degreaser • Excellent removing oil, grease and dirt from material surface • Residue free surfaces free of sticky or slick films
ULTRA-CLEAN Ultrasonic cleaner	White Clear Liquid	13.0	<p>ULTRA-CLEAN is a ultrasonic cleaner, water soluble, heavy duty cleaner-degreaser formulated with an exceptional mild yet tough multicomponent surfactant-emulsifier system designed to working with ultrasonic system to achieve superior cleaning and excellent corrosion protection.</p> <ul style="list-style-type: none"> • Excellent cleaning and degreasing capabilities • Excellent removing oil, grease and dirt from material surface • Residue free surfaces free of sticky or slick films • Excellent corrosion protection

EDM Oil

Product name	Appearance	Viscosity@ [cSt]	Flash Point [°C]	Application
EDM G135H EDM Oil	Clear & Bright	3.9 - 4.3	133	<p>EDM G135H fluid is dielectric fluid for use in all discharge machines working for roughing and finishing work. EDM G135H is pure fluid designed for machine productivity and operator comfort when used in electrical-discharge machining. It has the balance of viscosity, oxidation stability, heat transfer characteristics, low odor and low toxicity.</p> <ul style="list-style-type: none"> • Highly refined, low smell dielectric fluid designed to perform over a broad range of metal removal rates • Low viscosity and wetting ability ensure effective flushing of spark gap • High flash point and low evaporation rate make the product safe for using • Clean and clear for great visibility of work piece
EDM G100HS EDM Oil	Clear & Bright	2.0 - 2.7	100	<p>EDM G100HS fluid is dielectric fluid for use in all discharge machines working for finishing work. EDM G100HS is pure fluid designed for machine productivity and operator comfort when used in electrical-discharge machining. It has the balance of viscosity, oxidation stability, heat transfer characteristics and low toxicity.</p> <ul style="list-style-type: none"> • Highly refined low viscosity dielectric fluid designed to perform over a broad range of metal removal rates • Low viscosity and wetting ability ensure effective flushing of spark gap • High flash point and low evaporation rate make the product safe for using • Clean and clear for great visibility of work piece

FACTORY MAX

WE **CAN** MAXIMIZE YOUR PROFIT

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