

**AUTOMOTIVE
& INDUSTRIAL
LUBRICANTS AND ADDITIVES**



LUBCHEM KOREA

Company Information

Company Name: Lubchem Co. Ltd.
Established year : 1998
Company Registration No.: 514-81-30297
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Business scope : Manufacturing automotive lubricants, industrial lubricants,
 nano additives and chemicals
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About Lubchem

Lubchem Co., Ltd. is a leading company amongst the special lubricant makers in South Korea with its product portfolio including a wide array of automotive lubricants and other industrial lubricants. Our company has many certifications to its credit and has been thriving in the sector due to the impeccable quality of its products.

After establishing a firm business presence in the domestic lubricant market, Lubchem Korea has embarked in the overseas market and has already gained an epitome of reliability and promptness for itself in Asian market and Europe. Our progress is highly attributed to the patronage received from valuable customers in these countries.



Certificates

- 1999. 12 : Certificate of Superior Technology Company by KOTEC
- 2002. 07 : Certificate of Superior exporting firm by Daegu, Kyeongbuk export assistance center
- 2002. 10 : Quality system certificate - KS A 9001/ISO 9001
- 2006. 05 : Venture Business Certification (Small & Medium Business Corporation)
- 2006. 08 : Certificate of Innovative technology Small & Medium Business Corporation by IBK Bank
- 2007. 08 : Certificate of promising small & medium Enterprise by Daegu Bank
- 2011. 10 : ISO/TS 16949:2009 certificate by Kiwa International Cert GmbH



Global Partners



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Lubchem-Solution provider for lubricating problems

LUBCHEM is one of the leading lubricants manufacture for industrial sectors in South Korea.

Over the last 15 years, Lubchem lubricants have helped customers outpace the competition by bringing customized, innovative solutions into an increasingly competitive automotive industry.

Whatever your engineering challenge - longer part life, extreme temperatures, reduced failures, Lubchem performance lubricants can help.

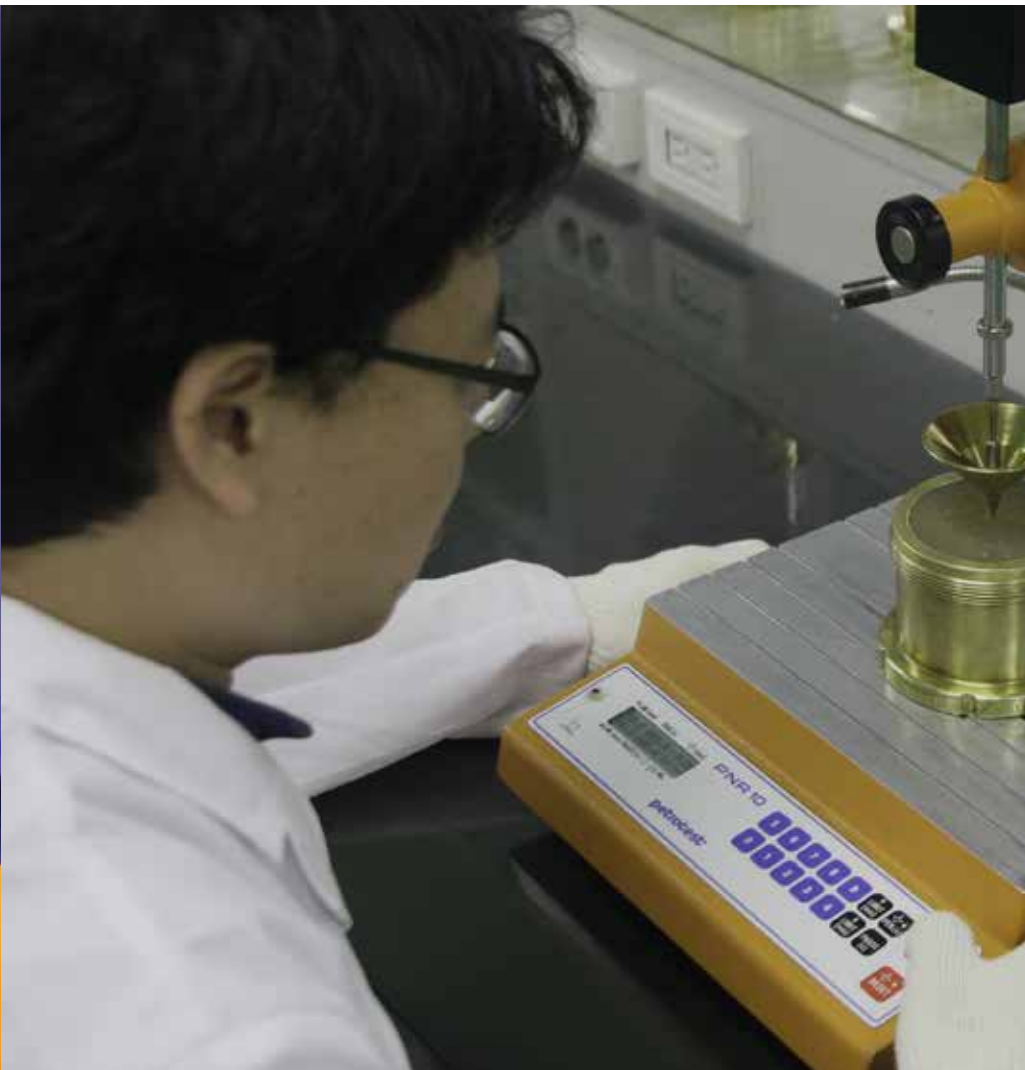
To meet the increasing requirements of the customers and to offer new or optimized products, our engineering team is constantly striving with the research and development of innovative lubricants in our laboratory.

Thanks to the clearly defined selection of the thickener and its portion, type of the base oil and various additives, LUBCHEM lubricants give an extraordinary performance.

The lubricants is regarded as a key element in the machines and parts and the selection of the proper lubricant is a very important factor with regard to long-term working, high operating reliability and efficiency of system.

If you need more technical service and information about lubricants, contact us. Our door is always open for you.





Automotive Lubricants

Gasoline Engine oils | BLANDO® & NYCO®

- These engine oils overcome limit of general mineral oils due to the high viscosity index base oil and displays superior performance in Gasoline, LPG, RV, light diesel engines and other vehicle which turbo-chargers was assembled.
- Excellent high temperature cleanness, dispersiveness and high, low temperature sliding cutting safety and also good igniting performance at low temperature. It prevents oxidation and generation of a precipitate, varnish inside the engine. Blando & Nyco series oils reduce engine abrasion and minimize sludge.

Model	Base oils	Grade	Specific gravity @15/4°C	Kinematic viscosity cSt		Viscosity Index	Flash Point (°C)	Pour Point (°C)	Package			Remarks
				@40°C	@100°C				1LT	4LT	20LT	
NYCO PREMIUM E	ESTER	0W50	0.868	131.5	19.8	173	200	-25	●	●		- France Nyco ester base oil and special additives for anti-oxidant, API SN/CF
NYCO PREMIUM EW	ESTER + WS ₂	5W40	0.860	81.7	14	177	210	-30	●	●		- France Nyco ester base oil and nano WS ₂ additive effect for high performance car
BLANDO SUPER PE	P.A.O	5W30	0.856	69.2	11.7	165	230	-39	●	●	●	- Fully synthetic high performance engine oil, API SN/CF
BLANDO SUPER PE	P.A.O	10W40	0.860	95.9	14.71	160	232	-33	●	●	●	- Fully synthetic high performance engine oil, API SN/CF
BLANDO SUPER PEW	P.A.O + WS ₂	5W30	0.855	61.7	11	172	230	-42	●	●		- Fully synthetic base oil and nano WS ₂ additive effect for high performance car
BLANDO TOP P	Synthetic	5W30	0.848	52.0	10.4	178	234	-47.5	●	●	●	- Multi-purpose synthetic engine oil, API SM/CF
BLANDO TOP PW	Synthetic + WS ₂	5W30	0.848	52.0	10.4	178	234	-47.5	●	●	●	- Multi-purpose synthetic engine oil and WS ₂ additive effect, API SM/CF

Diesel Engine oils | DURO®

- Duro series are high performance engine oils made to meet with diesel engines which are attached for truck, bus and the combustion engine built in industrial machines. These oils are made to protect vehicles that are driven under extreme condition, and the carefully selected additives minimize sludge generated upon vehicle driving so that they reduces engine abrasion.
- As cleanness and dispersiveness are excellent, they suppress sludge generated on piston so that oils make the engine inside keep clean.

Model	Base oils	Grade	Specific gravity @15/4°C	Kinematic viscosity cSt		Viscosity Index	Flash Point (°C)	Pour Point (°C)	Package			Remarks
				@40°C	@100°C				4LT	20LT	200LT	
DURO SUPER M	Mineral	15W40	0.875	107.2	14.8	143	228	-32.5	●	●		- Multi-purpose diesel engine oils, contained various additives for improving engine performance
DURO SUPER M	Mineral	30	0.891	95.5	11.1	101	250	-20.0	●	●	●	- Multi-purpose diesel engine oils, contained various additives for improving engine performance
DURO SUPER M	Mineral	40	0.897	140.0	14.7	105	254	-17.5	●	●	●	- Multi-purpose diesel engine oils, contained various additives for improving engine performance
DURO SUPER M	Mineral	50	0.89	199.6	18.3	101	272	-12.5	●	●	●	- Multi-purpose diesel engine oils, contained various additives for improving engine performance
DURO SUPER PW	Synthetic	5W40	0.875	107.2	14.8	143	228	-32.5	●	●		- High performance fully synthetic diesel engine oil, nano WS ₂ additive effect
DURO SUPER PW	Synthetic	30	0.882	93.2	11.0	103	230	-22.5	●	●		- High performance fully synthetic diesel engine oil, nano WS ₂ additive effect
DURO SUPER PW	Synthetic	40	0.895	145	14.5	100	240	-15	●	●		- High performance fully synthetic diesel engine oil, nano WS ₂ additive effect

Automotive Lubricants

Automotive Gear oils | VELOD®

- Velod oils can be applied to all hypoid gears, transmissions and transaxle of various vehicles that require API GL-5 grade and used widely as a rear-wheel gear oils.
- Particularly prevention of rust and abrasion at high and low temperature.

Model	Specific gravity @15/4°C	Viscosity cSt @40°C	Flash Point (°C)	Pour Point (°C)
VELOD M 90	0.884	127.9	230	-20
VELOD M 140	0.891	304.0	234	-10
VELOD M 80W/90	0.886	130.5	238	-30
VELOD M 85W/140	0.892	354.0	256	-17.5

Automotive Auto Transmission Fluids | KIMET®

- High quality automatic transmission fluid, KIMET used for lock-up clutch has longer-life cycle than ATF Dexron in terms of oxidation.

Model	Specific gravity @15/4°C	Kinematic viscosity cSt		Viscosity Index	Flash Point (°C)
		@40°C	@100°C		
KIMET ATF	0.862	36.25	7.0	158	-40

Manual Transmission Fluids | RITMO®

- Ritmo transmission fluids are used for gear boxes, transaxle that require API GL-4 grade.
- They minimize abrasion of gear even under extreme pressure lubricating state as sliding cutting safety is excellent.

Model	Specific gravity @15/4°C	Kinematic viscosity cSt		Viscosity Index	Flash Point (°C)	Pour Point (°C)
		@40°C	@100°C			
RITMO 75W85	0.839	80	12.70	158	232	-42.5
RITMO 85W-140	0.90	410	29.50	99	240	-17.5
RITMO 90	0.902	188	17.5	100	230	-22.5
RITMO 140	0.915	400	29.3	99	224	-17.5



Bike Oils

2-Cycle oils | BLANDO®

- BLANDO 2-cycle oils are used special additive package for bike engines.
- The performance of engine protection is excellent and they form a strong lubricating film that can prevent abrasion and corrosion.

Model	Base oils	Specific gravity @15/4°C	Kinematic viscosity cSt		Viscosity Index	Flash Point (°C)	Pour Point (°C)
			@40°C	@100°C			
BLANDO 2T M	Mineral	0.878	67.52	11.23	160	214	-35
BLANDO 2T S	Synthetic Ester	0.862	46.4	8.9	175	88	-

4-Cycle oils | BLANDO®

- BLANDO 4-cycle oils are excellent for motor cycle oils that show optimum performance as a four season all-weather one. They are 4 stroke motor cycle engine oils for all seasons.
- They minimize ring sticking and spark plug fouling and effectively control engine wear and also provide excellent rust protection.

Model	Base oils	Specific gravity @15/4°C	Kinematic viscosity cSt		Viscosity Index	Flash Point (°C)	Pour Point (°C)
			@40°C	@100°C			
BLANDO 4T M	Mineral	0.856	82.0	13.0	153	230	-37.5
BLANDO 4T S	Synthetic Ester	0.849	87.7	14.3	170	230	-39

Industrial Lubricants - Oils

High Viscosity Index Hydraulic Fluids

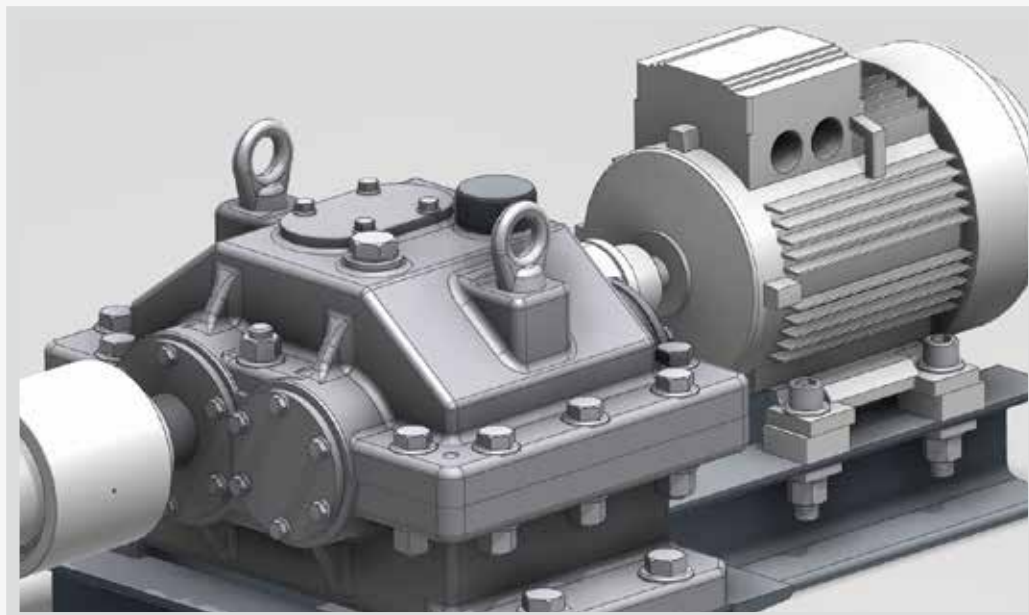
- High-class anti-wear type hydraulic fluids used for hydraulic system equipment for various types of industrial machinery and machine tools.
- Lubchem oils have excellent performance particularly when extreme pressure is required.
- They suppress sludge generation as abrasion-proof property and oxidation safety are excellent.
- Prevent noise and leakage from cylinder as suitability with rubber materials such as packing, O-ring and etc. is excellent.

Model	Specific gravity @15/4°C	Kinematic viscosity cSt, @40°C	Flash Point (°C)	Pour Point (°C)
LUBCHEM HD 15	0.870	15	162	-50.0
LUBCHEM HD 22	0.862	22	180	-45.0
LUBCHEM HD 32	0.872	32	214	-32.5
LUBCHEM HD 46	0.877	46	225	-32.5
LUBCHEM HD 68	0.882	68	225	-30.0
LUBCHEM HD 100	0.882	100	228	-27.5
LUBCHEM HD 150	0.887	150	230	-25.0
LUBCHEM HD 220	0.891	220	240	-25.0

Gear Oils

- LUBCHEM gear oils can be applicable to all type of oils supplying methods such as circulating, scattering, spraying etc.
- Extreme-pressure property is superior owing to remarkable load carrying capacity, and abrasion reduction and oxidation, heat safety and demulsibility are excellent.
- Extreme-pressure-proof, rust preventing, oxidation and air bubble preventing property are excellent.

Model	Specifications	ISO VG DIN 51 519	Service temperature (°C)	Base oil
LUBCHEM GM series		46 ~ 680	-15 ~ 100	Mineral
LUBCHEM GM... S series		32 ~ 680	-45 ~ 140	P.A.O
LUBCHEM GH series		32 ~ 1,000	-45 ~ 160	P.A.G
LUBCHEM GE series		220 ~ 320	-25 ~ 110	Ester



Industrial Lubricants - Oils

Machine Oils

- Used in every application such as circulating systems, anti-friction bearings, gears, operating at moderate loads, mild service hydraulic systems.
- As this is a paraffin class pure mineral oil highly refined, viscosity index is high and heat and oxidation safety is excellent. A sludge is scarcely ever generated or discolored.

Model	Specific gravity @15/4°C	ISO VG	Kinematic viscosity cSt, @40°C	Flash Point (°C)	Pour Point (°C)
LUBCHEM MP 22	0.865	22	22	172	-20.0
LUBCHEM MP 32	0.864	32	32	181	-15.0
LUBCHEM MP 68	0.872	68	68	246	-15.0
LUBCHEM MP 100	0.874	100	100	250	-15.0
LUBCHEM MP 150	0.882	150	150	25	-12.5
LUBCHEM MP 220	0.890	220	220	252	-12.5
LUBCHEM MP 320	0.884	320	320	260	-12.5
LUBCHEM MP 460	0.887	460	460	302	-12.5

* Other viscosities or customized oil grades are available according to customer's demands.

Slide Oils

- These oils are contained special additives to improve lubricity and offer good load-carrying capacity to bearings, slideways and gears particularly in machine tools.
- As anti-oxidation and heat dissipating properties are excellent, our slide oils are not deteriorated easily and water separability is superb.

Model	Specific gravity @15/4°C	Kinematic viscosity cSt, @40°C	Flash Point (°C)	Pour Point (°C)
LUBCHEM SD 32	0.870	32	214	-30.0
LUBCHEM SD 68	0.880	68	236	-25.0
LUBCHEM SD 320	0.896	220	260	-25.0

* Other viscosities or customized oil grades are available according to customer's demands.

Industrial Lubricants - Oils

Turbine Oils

- A long-life, top-class turbine oil for specific use in large-capacity, thermal power turbines.
- These oils are a lubricating oils for various turbines of electricity generation industry, ship, railway vehicle and used for circulating system which lubricates bearing of machines, reduction gear and fluid coupling etc.

Model	Specific gravity @15/4°C	ISO VG	Kinematic viscosity cSt, @40°C	Flash Point (°C)	Pour Point (°C)
LUBCHEM TB 32	0.866	32	32	210	-15
LUBCHEM TB 46	0.869	46	46	226	-12.5
LUBCHEM TB 68	0.874	68	68	220	-15
LUBCHEM TB 100	0.877	100	100	260	-10

* Other viscosities or customized oil grades are available according to customer's demands.

Synthetic (P.A.O) Compressor oils

- Used for compressors which need excellent anti-oxidation safety with abrasion-proof property even under high temperature and pressure condition like multi-stage compressor that are air compressor of screw and rotary vane type.
- Possible to use for compressors which are operated at high temperature condition, as an oil is developed to use for long interval maintenance.

Model	Specific gravity @20°C, g/cm ³	ISO VG	Kinematic viscosity cSt, @40°C	Flash Point (°C)	Pour Point (°C)
LUBCHEM SH 32	0.85	32	32	230	-50
LUBCHEM SH 46	0.85	46	46	240	-35
LUBCHEM SH 68	0.86	68	68	240	-35
LUBCHEM SH 100	0.86	100	100	240	-32

* Other viscosities or customized oil grades are available according to customer's demands.

Industrial Lubricants - Greases



Multi-purpose Lithium Greases | ASTRO®

- All-round, long-term, lithium-based greases. Offering good corrosion protection.
- This is suitable lubricating grease for electric motor and water pump rolling bearings etc.

Model	Base oil	Thickener	Base oil Viscosity @40°C, mm ² /s	NLGI	Drop point (°C)	Color	Package (kg)
ASTRO MP 6031	Mineral	Li	120	1	180	Dark beige	1, 4, 15, 180
ASTRO MP 6032	Mineral	Li	120	2	180	Dark beige	1, 4, 15, 180
ASTRO MP 6033	Mineral	Li	120	3	180	Dark beige	1, 4, 15, 180

(* Package: 1kg, 4kg can, 15kg pail, 180kg drum, Bulk packing available according to customer's request)

Extreme Pressure Grease | ASTRO®

- Lithium based grease containing EP additives, resistant to very high mechanical loads and stress.
- Good oxidation stability, excellent water resistance and outstanding corrosion protection in water and chemical media.

Model	Base oil	Thickener	Base oil Viscosity @40°C, mm ² /s	NLGI	Drop point (°C)	Color	Package (kg)
ASTRO EP 6041	Mineral	Li	180	1	>190	Dark beige	1, 4, 15, 180
ASTRO EP 6042	Mineral	Li	180	2	>190	Dark beige	1, 4, 15, 180
ASTRO EP 6043	Mineral	Li	180	3	>190	Dark beige	1, 4, 15, 180

(* Package: 1kg, 4kg can, 15kg pail, 180kg drum, Bulk packing available according to customer's request)

Industrial Lubricants - Greases

MoS₂ Grease | **UMOLY®**

- Outstanding high temperature capabilities and multi-functional lubricating greases.
- Excellent extreme pressure and anti-wear properties.
- Superior shear stability, oxidation resistance and corrosion protection.
- Excellent resistance to water wash-out, maintaining consistency, thus protecting bearings from wear.

Model	Base oil	Thickener	Base oil Viscosity @40°C, mm ² /s	NLGI	Drop point (°C)	Color	Package (kg)
UMOLY BM 9042	Mineral	Silicate	180	2	none	Gray Black	1, 3, 15,180
UMOLY ML 6042	Mineral	Li	180	2	>190	Gray Black	1, 3, 15,180

(* Package: 1kg, 3kg can, 15kg pail, 180kg drum, Bulk packing available according to customer's request)

High-temperature Grease

- Considerable reduction of rolling bearing replacement costs due to good wear protection, good load-carrying capacity and excellent corrosion protection.
- Trouble-free operation of machines due to good pumping property and metering in central lubrication systems.
- Low wear at high temperature and resistant chemical medias.

Model	Base oil	Thickener	Base oil Viscosity @40°C, mm ² /s	NLGI	Drop point (°C)	Color	Package (kg)
LUBCHEM HB 3101	Mineral	Di-urea	460	1	>260	Light yellow	1, 3, 15,180
LUBCHEM HB 3102	Mineral	Di-urea	460	2	>260	Light yellow	1, 3, 15,180
LUBCHEM HL 3032L	P.A.O	Polyurea	130	2	>270	Beige	1, 3, 15,180

(* Package: 1kg, 3kg can, 15kg pail, 180kg drum, Bulk packing available according to customer's request)



Nano Lubricants and Additives

Nano WS₂ Greases - Nanolube®

- All-round, long-term, lithium or polyurea based greases and offering good corrosion protection.
- These greases are suitable for lubricating of bearings such as electric motor, water pump bearings etc.
- Nanolube WEP 2 grease is a well proven lubricating grease for low-speed rolling and sliding bearings exposed to high loads.

Model	Base oil	Thickener	Base oil Viscosity @40°C, mm ² /s	NLGI	Drop point (°C)	Color	Package (kg)
Nanolube WEP 2	Mineral	Li	1,000	2	180	Dark grey	1,15,180
Nanolube WMP 2	Mineral	Li	120	2	180	Dark grey	1,15,180
Nanolube WHT 2	Mineral	Polyurea	180	2	>260	Dark grey	1,15,180

(* Package: 1kg can, 15kg pail, 180kg drum, Bulk packing available according to customer's request)

Nano WS₂ Oils - Nanolube®

- Particularly resistant to ageing and oxidation. They have a good viscosity-temperature behaviour and excellent low and high temperature characteristics.
- Featuring a unique "dual action" effect: multi-layer WS₂ nanospheres lower friction and heat, thereby reducing mechanical wear. At the same time, friction causes nano-spheres to release tribo-films that attach to surface crevices and re-smoothen them, thereby extending mechanical efficiency and apparatus life.

Model	Base oil	Base oil Viscosity @40°C, mm ² /s	Flash Point(°C)	Color	Applications
Nanolube WCE 320	Ester	320	>260	Dark grey	- High temp. chain oils in MDF machine's conveyor
Nanolube WCE 100	Ester	100	>270	Dark grey	- Designed for drive, control and transport chains subject to high temperatures and loads.
Nanolube WCP 100	P.A.O	100	>250	Dark grey	- Used for the lubrication of chains in dryers and ovens as well as for chains subject to high temperatures in circular conveyors.
Nanolube GM Series	P.A.O	-32~680	>200	Dark grey	- Specially developed for the lubrication of spur-, bevel- and planetary gears that are subject to high loads. Such gears are frequently used in the wind, steel, mining and sugar industries.
Nanolube GH Series	P.A.G	-32~1,500	>250	Dark grey	- Especially developed for the lubrication of worm gears with steel/bronze or steel/grey cast iron pairings. The polyglycol base oils and special additives reduce the friction coefficient and provide low wear values, which is a clear advantage in these applications.

(* Package: 20lt pail, 200kg drum, Bulk packing available according to customer's request)

Award winning
TECHNOLOGY



Nano Lubricants and Additives

Nano WS₂ Engine treatment - Nano RC-X EG

- Reduces fuel consumption, harmful emissions and engine noise
- Slows down wear of internal engine parts (extends engine life) and extends effective oil life (reduces oil changing interval needs)
- Eases engine start in cold weather

Model	Material	Applications	Oil Viscosity @40°C, mm ² /s	Color	Packing	Usage
Nano RC-X EG	Engine oil + Nano WS ₂ additives	Engine treatment and surface reconditioning agent in automobile, truck, bike and ship or same applications.	100	Dark gray	- 250ml - 4lt	- 250ml additive should be applied in 4lt engine oil.

Nano WS₂ Gear treatment - Nano MP-X GR

Nano MP-X GR	Oil + Nano WS ₂ additives	Transmission treatment and surface reconditioning agent in cars, trucks and industrial gear systems .	260	Dark gray	- 20lt - 200lt	- 3~5% additive should be applied in gear oil for best performance.
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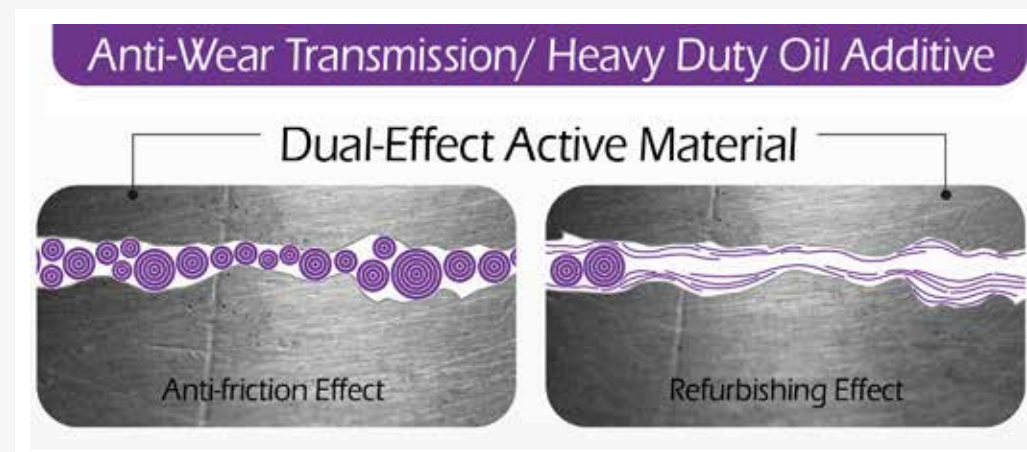
Nano WS₂ Compressor treatment - Nano MR-X CP

Nano MP-X CP	Oil + Nano WS ₂ additives	Treatment and surface reconditioning agent for screw and piston in air compressor .	260	Dark gray	- 20lt - 200lt	- 3~5% additive should be applied in gear oil for best performance.
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Nano WS₂ Chain treatment - Nano RC-X CN

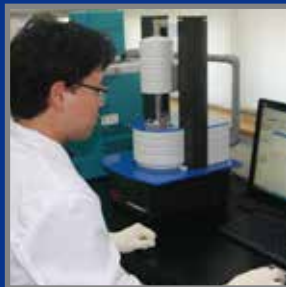
Nano MP-X CH	Oil + Nano WS ₂ additives	Treatment and surface reconditioning agent in chain exposed at high temperature and loads.	260	Dark gray	- 20lt - 200lt	- 3~5% additive should be applied in gear oil for best performance.
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© A new generation surface re-conditioning nano lubricants



Featuring a unique "dual action" effect: multi-layer WS₂ nano-spheres lower friction and heat, thereby reducing mechanical wear. At the same time, friction causes nanospheres to release tribo-films that attach to surface crevices and re-smoothen them, thereby extending mechanical efficiency and apparatus life. NanoLub® is based on formulated mineral oil concentrate mixed with Nano Materials' proprietary super strong tungsten disulfide (WS₂) multi-layered nano-fullerene particles.





You want to know more about Lubchem? Type LUBCHEM on youtube!

