

● Auto Chemical Lubricant

A list of auto products

Name	PN (NLGI)	Package	Color	Features
Brake rubber grease	LM-0101 (No.2) LM-0104	60g tube x 30 / case 300m ℓ × 24 / case (aerosol)	Grayish black	Grease used for rubber and brake. Keeps air-tight of cylinder and rubber, and secures the effect of brake for a longtime by excellent resistant to heat and wear of MoS ₂ . Operating temperature limit : -20°C ~ 220°C
High spec silicon grease	LM-0117 (No.2)	30g tube × 40 / case	White	High-adhesive type silicon grease with silicon oil as base oil containing polymer silicon powder. Available to be used in a wide variety of temperature. Operating temperature limit: -60 ~ 900°C
Clutch grease	LM-0201 (No.2)	60g tube x 30 / case	Grayish black	MoS ₂ compound. Extreme-pressure and resistance to wear grease. Operating temperature limit : -20 ~ 220°C
Disk pad grease	LM-0301 (No.2) LM-0302	30g tube × 40 / case 150m ℓ × 24 / case (aerosol)	Copper	Grease for preventing disk pad from squeaking. Operating temperature limit: -10°C ~ 200°C
Bearing grease	LM-0401 (No.2) LM-0402 (No.2) LM-0403 (No.3) LM-0404 (No.3)	2.5kg × 6 cans / case 16kg / pail can 2.5kg × 6 cans / case 16kg / pail can	Grayish black	High load type MoS ₂ compound. Protects bearing from wear and has an effect on longer fueling interval. Operating temperature limit: -20°C ~ 150°C
Bearing grease (Without MoS ₂)	LM-0411 (No.2) LM-0412 (No.2) LM-0413 (No.3) LM-0414 (No.3)	2.5kg × 6 cans / case 16kg / pail can 2.5kg × 6 cans / case 16kg / pail can	Light brown	Protects bearing from wear and has an effect on longer fueling interval. MP type grease without MoS ₂ compound. Operating temperature limit : -20 ~ 150°C
Constant velocity joint grease	LM-0501 (No.2) LM-0502 (No.2) LM-0503 (No.2)	150g cornice × 24 / case 2.5kg × 6 cans / case 16kg / pail can	Grayish black	Lithium grease containing MoS ₂ with excellent load bearing and resistance to wear. Operating temperature limit : -20 ~ 150°C
Constant-velocity joint grease (containing organic molybdenum)	LM-0521 (No.2) LM-0522 (No.2)	150g cornice × 24 / case 16kg / pail can	Yellow	Organic molybdenum compound. Grease with excellent resistance to heat, load and wear. Operating temperature limit : -20 ~ 180°C
Molybdenum grease #100	LM-0515 (No.2)	60g cornice × 20 / case	Grayish black	High performance grease containing MoS ₂ in high concentration with excellent load bearing and resistance to wear. Suitable for preventing constant joint from squeaking. Operating temperature limit : -20 ~ 180°C
Moly lithium grease	LM-0601 (No.2)	400g cornice × 20 / case	Grayish black	MPLithium grease containing MoS ₂ with high load bearing. Operating temperature limit : -20 ~ 150°C
Moly SM grease	LM-0602 (No.2)	400g cornice × 20 / case	Grayish black	MPLithium grease containing MoS ₂ Operating temperature limit : -20 ~ 150°C
Moly chassis grease	LM-0603 (No.2) LM-0604 (No.1)	400g cornice × 20 / case 16kg / pail can	Grayish black	Chassis grease containing MoS ₂ with excellent water resistance. Extend the filling interval about twice. Operating temperature limit : -10 ~ 100°C
BM grease	LM-0605 (No.2) LM-0606 (No.2) LM-0607 (No.2)	400g cornice × 20 / case 2.5kg × 6 cans / case 16kg / pail can	Grayish black	Adhesive and water-resistant grease containing MoS ₂ . Suitable for outdoor-type heavy machine. Operating temperature limit
BM grease (middle adhesive type)	LM-0608 [*] (No.2)	2.5kg × 6 cans / case 16kg / pail can	Grayish black	Middle adhesive type BM grease containing MoS ₂ . Operating temperature limit : -20 ~ 180°C
BM grease (high adhesive type)	LM-0609 [*] (No.2)	2.5kg × 6 cans / case 16kg / pail can	Grayish black	High adhesive type BM grease containing MoS ₂ . Excellent in resistance to stick-slip. Operating temperature limit : -20 ~ 180°C
Chassis grease (without MoS ₂)	LM-0613 (No.2)	400g cornice × 20 / case 16kg / pail can	Light brown	Normal chassis grease without containing MoS ₂ . Excellent in water resistance and suitable to be used for wet parts and outdoor. Operating temperature limit : -10 ~ 80°C
	LM-0615 (No.2)	16kg / pail can	Dark brown	
	LM-0618 (No.0) LM-0623 (No.1) LM-0625 (No.1)	400g cornice × 20 / case 16kg / pail can		
Lithium grease (without MoS ₂)	LM-0614 (No.2) LM-0616 (No.2)	400g cornice × 20 / case 16kg / pail can	Light brown	Normal lithium grease without containing MoS ₂ . Operating temperature limit: -20 ~ 120°C
EP grease	LM-0633	16kg / pail can	Light yellow	Normal lithium grease without MoS ₂ . EP (Extreme Pressure) grease with superior load resistance feature. Operating temperature limit : -20 ~ 120°C
Lesstorque	LM-0702 (aerosol)	420m ℓ × 24 / case	Light yellow	MP osmotic lubricant spray containing organic molybdenum.
Paste spray	LM-0801 (aerosol)	300m ℓ × 24 / case	Grayish black	A product transforming paste with MoS ₂ compound into spray. For smooth combination and wear seizing prevention.
Drycoat spray	LM-0901 (aerosol)	300m ℓ × 24 / case	Grayish black	A product transforming MoS ₂ dry coating agent into spray. Suitable for lubricating oil-avoiding areas and area and high-temperature and pressure parts.
HI POWER JET	LM-0910 (aerosol) LM-1404 (aerosol)	150m ℓ × 10 sets / case	Grayish black	MoS ₂ powder spray. Just spray this product inside the cylinders, you can realize the engine becomes powerful. Set with LM-1404 cylinder cleaner
Super spray grease	LM-1001 (aerosol)	300m ℓ × 24 cans / case	Light yellow	MP spray grease compounding organic molybdenum with lithium grease.
Power max	LM-1101 LM-1102	250m ℓ × 24 cans / case 1 ℓ angular can × 12 cans / case	Grayish black	Engine oil additive agent. Suitable for power up, fuel cost saving, overheat prevention, oil deterioration prevention and turbo engine. Operating temperature limit : -20 ~ 180°C
For differential mission gear	LM-1201 LM-1202 ^{**} LM-1203 ^{**}	150m ℓ cornice × 24 / case 500m ℓ tube × 25 / case 1 ℓ angular can × 12 cans / case	Grayish black	Additive exclusive for gear oil with MoS ₂ compound. Reduces gear squeaking, prevents seizing and oil deterioration. Operating temperature limit : -10 ~ 200°C
Coupler grease	LM-1301 (No.2) LM-1302 (No.2)	2.5kg × 6 cans / case 16kg / pail can	Grayish black	MoS ₂ compound grease. Excellent in load bearing, lubricant property and resistance to grit and dust. Operating temperature limit : -20 ~ 150°C
Brake and parts cleaner	LM-1402 (aerosol) DM-007	530m ℓ × 24 / case 850m ℓ × 24 / case	Clear and colorless	Excellent for cleaning and removing foreign matters such as grease and metal powder. Can be sprayed with the can downside up. Lightly-scented.
Aluminum special (seizing inhibitor)	LM-1501 ^{**} LM-1503 (aerosol)	200g container × 12 / case 150m ℓ × 24 / case (aerosol)	White silver	Seizing inhibitor mixed with aluminum metal powder excellent in heat resistance. Especially does great execution in high temperature. Operating temperature limit : -60 ~ 1200°C Caution! the operating temperature limit of aerosol type is different from the one described above.
Tech lube (water-resistant grease)	LM-1601 (aerosol)	420m ℓ × 24 / case (aerosol)	Light yellow	Excellent in water resistance. With less splash, suitable for sliding parts including chains. This product is an easy-to-use spray type with excellent coating properties.

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Name	PN (NLGI)	Package	Color	Features
Less ruster (strong corrosion control agent)	LM-1701 LM-1702*	300ml × 24 / case (aerosol) 20 l / angular can	Light yellow	Water displacement type corrosion prevention spray which has an outstanding effect on corrosion, salt and potassium chloride control. Available to be used when water is attached.
Boron spray	LM-1801	150ml × 24 / case (aerosol)	White	Powder type spray using white solid lubricant of boron nitride. Excellent in heat resistance and adhesive property. Suitable to be used in oil-avoiding areas.
Electric molybdenum grease	LM-2001* (No.1)	500g × 6 / case	Grayish black	Grease exclusively used for current electric components with MoS ₂ compound Operating temperature limit : -10 ~ 200°C
Auto grease	LM-5001 (No.0) LM-5002 (No.0)	300g tube × 24 / case 1 l accordion tube × 15 / case	Dark brown	Packs chassis grease with excellent water resistant property in easily-handled mayonnaise type accordion tube container. Grease for centralized oiling of large diesel-powered vehicles. Operating temperature limit : -10 ~ 80°C
Recyclean	LM-8002	16 l / angular can	Clear and colorless	Refill for the Brake & Parts Cleaner. By using a special purpose refilling equipment, the cleaning liquid can be repeatedly refilled. Waste cans can be reduced. Most suitable for use in factories that consume the cleaner in large amounts.

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● リキモリ Nylon

リキモリ Nylon (Nylon with MoS₂ filled up) was developed to improve mechanical and physical characteristics of nylon as well as technological property while keeping its original electrical and chemical properties. The addition of MoS₂ makes MoS₂ as nucleus, changes into microcrystalline structure from crystal structure, increases the degree of crystallinity and then degree of heat conductivity. Following are the comparison chart between リキモリ Nylon and variety of engineering plastic properties:

Our company form, shape, cut and process MP nylon, MC nylon, polyimide polyacetal, PTFE, polyethylene, Thickness, as well as normal size リキモリ nylon.

Comparison chart between リキモリ Nylon and variety of engineering plastic properties

Property	Unit	LIQUI-MOLY Nylon	Normal nylon		Polyacetal	Super-high-molecule polyethylene	PC	Test method ASTM
			Nylon 6	Nylon 6.6				
Tensile strength	MPa	76	74	76	61 ~ 66	43	59 ~ 69	D638
Stretch	%	15	130	60	15 ~ 75	450	20 ~ 60	D638
Modulus of elongation	10 ³ MPa	2.5	2.4	2.8	2.3	0.9	2.5	D638
Compressive strength	MPa	83	82	89	110	32	74	D695
Strength in shear	MPa	74	70	89	55		63	D732
Bending strength	MPa	103	96	113	89	23	88	D790
Impact strength	(with izot notch) J/m	30	55	50	66	Non-destructive	637	D256
Hardness (Rockwell)	R-Scale	119	80	97	110 ~ 120	40 ~ 50	110 ~ 120	D785
Melting point	°C	225	225	265	165			D789
Heat deformation	°C (0.45MPa)	180	180	220	120	45	135	D648
Allowable temperature limit	°C (continuity)	120 ~ 130	110		104	120	120	—
Friction coherent (moving)	— vs. steel	0.08	0.18		0.13			—
Friction coherent (stationary)	— vs. steel	0.10	0.25		0.18			—
Specific gravity	—	1.15	1.13 ~ 1.14	1.13 ~ 1.14	1.42	0.94	1.20	D792

※ Numeric values shown in the above table are general property values, not delivery specification.

S I unit conversion 1MPa = 10.2kg/cm², 1J/m = 0.102kgf·cm/cm

リキモリ Nylon round bar and board size (standard)

Round bar	Outside diameter mm (Length : 1,000 mm)	10*	15*	20	25*	30	35*	40	45*	50	60	70*	80*	90*	100*	
Board	Thickness mm (Width 500 mm × Length 1,000 mm)	5			10			15			20		30*		50*	

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