



















































Go Smooth  
**CASMOLY**  
SPECIALTY LUBRICANTS

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















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




# Automotive Lubricant

Application	Property	Base oil	NLGI	Product
<b>Driveshaft (CV Joint)</b>				
Inboard joint (TJ)	 	Mineral	2	CK-2, HD-TJ, ML-10B
Outboard joint (BJ)	 		1~2	MX-13KT, CW-13TJ, CXD-150
Propeller shaft	  		2	CXD-200, VL-200
			1	VX-15CJ
<b>Clutch</b>				
Tivot	 	Synthetic	1	MS-02
Release bearing	 		2	L-9508
Alternator bearing	 		2	BX-230
<b>Bearing</b>				
Plane bearing and guide	 	Mineral	3	M-8143
Wheel hub	 			
<b>Start motor</b>				
Overrunning clutch	 	Silicone	1	CM-S25(A)
			2	S310A
Gear, spline shaft	 	Synthetic	2	CM-55(A), MC-55
<b>Brake</b>				
Booster (Single/Tandem)	 	Silicone	2~3	SG-P
			2~3	SG-P2
Caliper boots	 	Synthetic	1~2	ML-701
Brake shoe	 	Synthetic	2~3	MS-243
<b>Steering</b>				
Rack & Pinion	 	Semi-syn.	2	EL45M-MO
Interm shaft	 			
Tilt column	 	Synthetic	2	MC-241
Tie rod (IBJ)	 	Silicone	3	CP-3N
Tie rod (OBJ)	 			



Application	Property	Base oil	NLGI	Product
<b>Suspension</b>				
Stabilizer (Ball joint)		Synthetic	2	CGMS-01
Control arm (Ball joint)	 			
<b>Shift lever</b>				
MT shift lever	 	Silicone	1	SG-1
			2	SG-2
Change lever	 	Synthetic	1~2	CAS-623
Automotive shift gear	 		2	VS-270
<b>Body/Interior</b>				
Combination switch	 	Synthetic	1~2	L-2406
			1	PL-50
HVAC Actuator	 	Synthetic	1~2	PL-50D
Power folding OSRVM	 		1~2	PL-231
Door lock system	 		1	AM-39
Door lock cable	 	Mineral	1	PL-70
Key module	 		1	ML-23W
Seat guide rail	 	Mineral	2	ML-201
			2	AR-2
Window regulator	 	Synthetic	2	DR-2
Door latch	 		2	DR-2
Wiper arm & linkage	 	Synthetic	2	L-1802(D)
Fuel filler door cable, Antena	 		2	PL-102
Parking brake cable	 		1	CG-2

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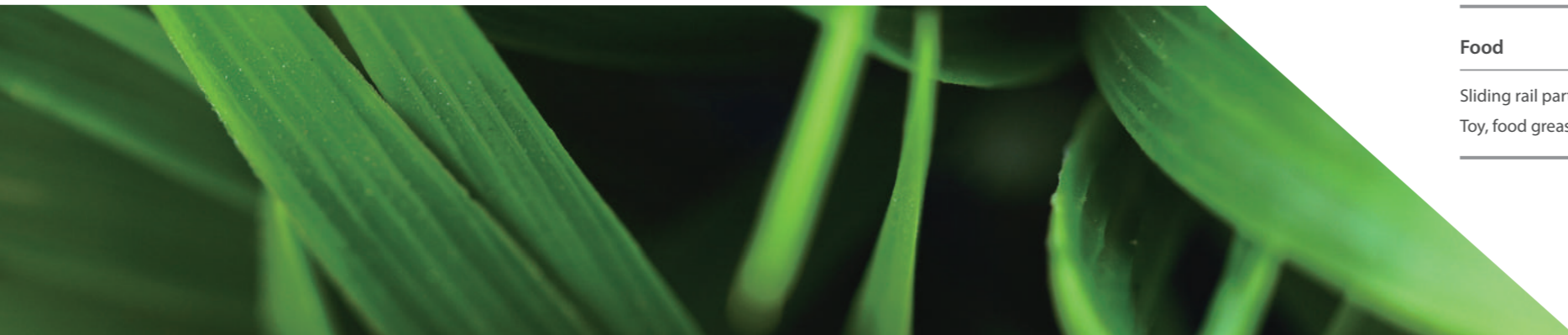
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 Durability / 내구성 / 耐久성  
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 Thin-film Coating / 박막코팅 / 薄膜コーティング / 薄膜塗層



Application	Property	Base oil	NLGI	Product
<b>Biodegradable Grease</b>				
Railroad		Vegetable	0-1	Vegerail KS-530
Railroad			1	EcoRail K50
Robotization in construction		Ester	2	RS-N50
Aerospace			2	BS-17
<b>Biodegradable Oil</b>				
Railroad turnout		Ester	-	L-11912







Application	Property	Base oil	NLGI	Product	
<b>Multi-purpose</b>					
Multi-purpose		Mineral	0	MEP-0	
			1	MEP-1	
			2	MEP-2, MW-P	
Power tool cable			2	MP-JC	
Rock grinder			1~2	QU-132	
<b>Gear</b>					
Enclosed gear, Circulated gear		Mineral	00	MPT-00	
Large & Medium reduction gear			1	SJX-150	
Normal reduction gear			2~3	65, EC-141	
Power tool, warm gear		Synthetic	0,00	L-1504	
Special reduction gear		Mineral + Synthetic	3	PT-113M	
<b>Bearing</b>					
High temp. bearing, Pan bearing			1	MP-031	
			2	MP-032	
Ball bearing, Plain bearing		Mineral	1	MP-131	
			2	MP-132	
General bearing			2	MPT-2	
Roller bearing			2	L-8903	
<b>Food</b>					
Sliding rail part of refrigerator, kimchi fridge		NSF H1 REGISTRATION No.142194	Synthetic	1	RAGOS-890
Toy, food grease		NSF H2 REGISTRATION No.139082	Mineral	1	CA-100(A)



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**Electric &  
Electronic**


Application	Property	Base oil	NLGI	Product
<b>Plastic</b>				
Wall Mount TV		Mineral	1	GL-740
Digital piano			1	PL-30(G), PL-50
LCD, LED monitor hinge	 	Synthetic	1	GS-270
Reduction gear of small motor			1	PL-30(G), PL-50
Office machine			2	PL-102
<b>DVD, CD-ROM</b>				
DVD, CD-ROM sliding part			1	PL-433
DVD gear part	 	Synthetic	1~2	CAS-623
DVD, CD-ROM warm gear part			2	L-1704
<b>Non-Spread</b>				
Control cable, small motor, slide&guide, bearing of audio parts	Plastic gear to prevent pollution	Mineral	1	PL-201
		Mineral + Synthetic	1	PL-300G










**Damping**

Application	Property	Viscosity (25°C)	NLGI	Product
<b>Damping - Mineral</b>				
Damping	  	176,000~220,000	2	DS-231
		100,000	4	DS-230
<b>Damping - Synthetic</b>				
Damping	  	37,000	1~2	DS-23W
		990(100°C)	-	PCG-1
		9,000(40°C)	3~4	PL-103



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## Si Silicone

Application	Property	Base oil	NLGI	Product
<b>Silicone Grease</b>				
Ceramic disks of water tap	<sub>H <sub>2</sub> O <td rowspan="2"></td> <td>0~1</td> <td>WT-0180</td>		0~1	WT-0180
			1	WT-360
Bridge post construction	°  *	Silicone	1	SG-1
			2	SG-2
Conveyor bearing in foundry			2	41
Drying furnaces, heating fan			1~2	44M
<b>Silicone Compound</b>				
Seal&lubrication of valves			4	CP-5
Sealing for airplane, automotive and marine ignition systems	°  <sub>O <sub>2</sub> <td rowspan="2">Silicone</td> <td>3~4</td> <td>CP-1</td>	Silicone	3~4	CP-1
Electrical assemblies, terminals, plug connection			2~3	CP-3
Sealing for pressure and vacuum system			4	V-11

## High temperature

Application	Property	Base oil	NLGI	Product
<b>Steel Industry</b>				
Bearing in CCM line		Synthetic	1	U-28KN
Bearing in steel industries			1	FC-311
Chain in steel industries	°  <sub>O <sub>2</sub> <td rowspan="2">Mineral</td> <td>0</td> <td>FS-180</td>	Mineral	0	FS-180
Hot air fans, drying furnaces			2	NX-12
			1	UP-320
<b>Bearing, Sliding</b>				
Sea equipment	<sub>H <sub>2</sub> O <td>Mineral</td> <td>2</td> <td>CSG-100</td>	Mineral	2	CSG-100
Corrugator bearing of paper		Synthetic	2	CSG-200
Rubber part under the severe temp. change	°	Silicone	1	L-7047
<b>PASTE</b>				
Fitting and loosening of bolt/nuts	°    > 400°C	Mineral	1~2	1000 PASTE
			2~3	K-PASTE
Running in, gasket	*	Synthetic	1	P-PASTE
Electric parts of automobile	<sub>O <sub>2</sub> <td>Synthetic</td> <td>1~2</td> <td>MP-250</td>	Synthetic	1~2	MP-250



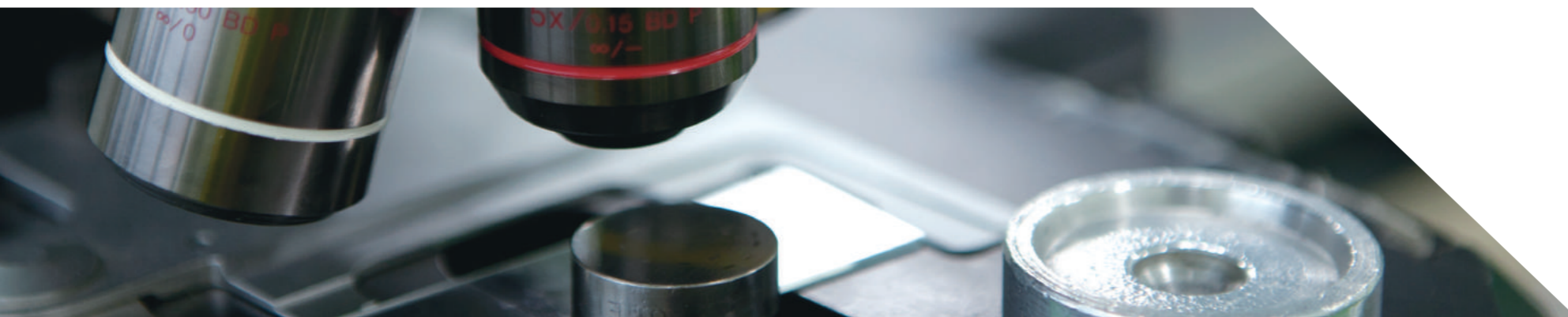
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 |<sub>O<sub>2</sub>

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 |<sub>O<sub>2</sub>
 |<sub>H<sub>2</sub>O
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**Special Purpose**

Application	Property	Base oil	NLGI	Product
<b>Special Grease</b>				
Gas cock/tap, gas valve		Mineral + Synthetic	0	GC-0
			2	GC-2
Conductive grease Bearing under high temp.		Synthetic PFPE	1~2	GC-300
			2~3	EEC-250
TQ-2			2	TQ-2
<b>Heat Sink Compound</b>				
Electrics & electronics requiring heat sink	Compatible with Junction Coating Resin UL94V-O (File No. E168167)	Silicone	1	HC-220
			1~2	HC-300

Application	Property	Base oil	NLGI	Product
<b>Spray</b>				
Assembling & running-in, press-fitting		Synthetic	360ml/can	C-1 SPRAY
Cutting tools, splines pins of railway vehicle and car brake		Synthetic Resins	250ml/can	202 SPRAY
<b>Molybdenum Disulfide</b>				
Grade	Fisher Number $\mu m$	Particle size Range by Sem $\mu m$	Medium Particle Size* $\mu m$	Remark
T.G **	3 - 4	< 1 - 100	30	* L&N Micortrac
T.F.G	0.65 - 0.8	< 0.5 - 20	6	** Sieve analysis (U.S. Sieve service)
S.F.G	0.4 - 0.45	< 0.5 - 8	1.5	100% through 100 mesh (149 $\mu m$ )



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## Lubrication oil & Emulsion








Application	Specific Gravity (15°C)	Viscosity (40°C, cSt)	Product
<b>Chain and EP Oil</b>			
Chain oil	1.018	320	6320
	0.898	560	L-560
	0.85	68	S-0728
Hydraulic oil	0.87	56	EP-56
<b>Vacuum Pump Oil</b>			
Rotary Vacuum Pump Oil	0.852	92	HIVAC-90
<b>Gear Oil</b>			
Gear/bearing	0.889	234	BW-230
Reduction gear	0.884	290	CAS-960
Gear/bearing, reduction gear	0.998	100	CAS-EPG
	1.01	150	
	1.01	220	
	1.01	320	
	1.01	460	
	1.01	680	
1.01	1000		
<b>Emulsion</b>			
Warm forging	0.995	7.2	SYNFOIL-40
<b>Others</b>			
Clipper oil	0.873	9.36	L-2A18










## AFC, LuBon

Application	Property	Setting Temp.	Product
<b>Normal Cure type</b>			
Anti-Friction Coating	  	4hours in romm temp. 20min. 50°C	LuBon 202
<b>Heat Cure Type</b>			
Anti-Friction Coating	    	60min. 170°C	LuBon 101MA
		60min. 180°C	LuBon 304CM
		120min. 150°C 60min. 220°C	LuBon 404



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Friction, wear tester / 윤활유 마찰, 마모 측정장비 <  
/ 潤滑油摩擦、摩耗測定裝備 / 潤滑油摩擦磨損測試設備



Pressure DSC / 윤활유 열분해 측정장비 <  
/ 潤滑油熱分解測定裝備 / 潤滑油熱分解測試設備

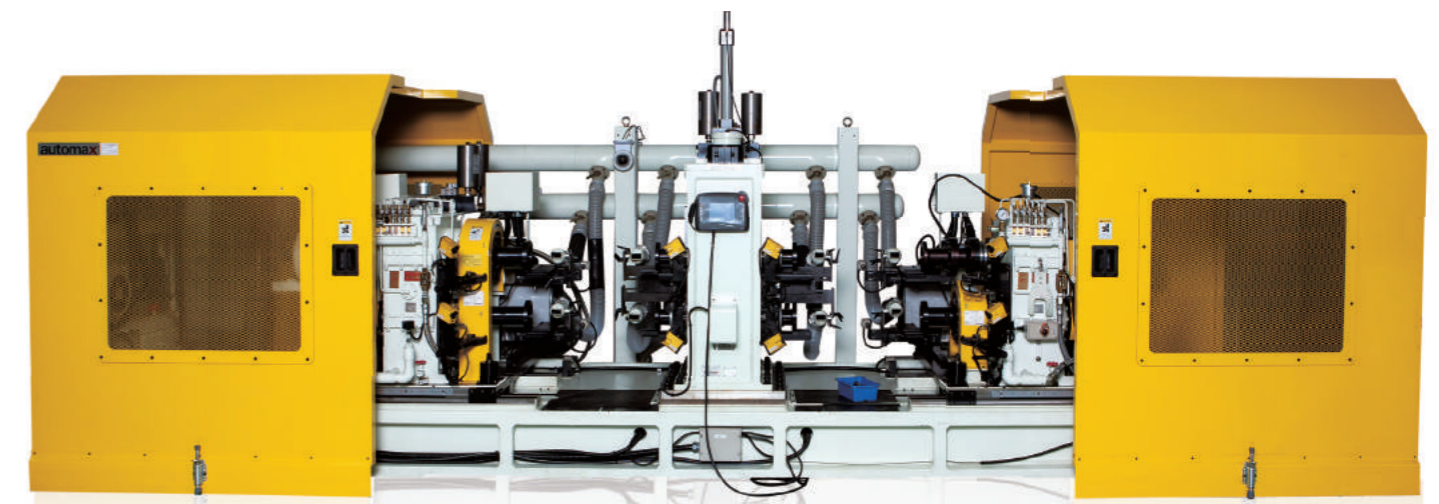


> SKF BeQuiet Tester / 베어링 소음 측정장비  
/ 베어링騒音測定裝備 / 軸承噪音測試設備



> SKF ROF+ Bearing Tester / 베어링 수명 시험장비  
/ 베어링壽命試驗裝備 / 軸承壽命測試設備

CV Joint Axial Force Tester / CV Joint 축력 측정 장치 <  
/ CV Joint軸力測定裝置 / 萬向節扭矩測試設備



> CV Joint Endurance Tester / CV Joint 회전 내구 시험장비  
/ CV Joint回轉耐久試驗裝備 / 萬向節轉速耐久測試設備





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