

# Specifications of Products

## 다목적유(General Purpose Oil : White Mineral Oil)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt 40 °C	Flash Point °C	Viscosity Index	Pour Point °C	Application
HP-080	0.875	7.85	≥180	78	-25.0	윤활유 및 석유화학 응용제품, 섬유유제, 실사 코팅제, 인쇄잉크 등의 원료. 목재 - 방부제, 발수제. 비료 공업 고결방지제. 식품 첨가물, 의약품, 화장품, 방제약제(유제), 농약용 Spray Oil 등의 원료. 천연고무, 합성고무, 특수고무 - 증량제, 배합유. Master Batch - Additive(첨가제). PP, PE - 희석제, 가소제, 증량제. 식품제조기계 윤활유, 식기 - 식품 포장용 렌지. 식품제조 소포제. 발효공정 표면 Sealing Layer. 과일, 채소류, 달걀 등의 Coating Oils, 식육 등 포장지 흡습 방지제. 빵 및 맛 김 제조기 이형제, 종이 흡입방지제, Aluminium Foil - Drawing Stamping 윤활제
HS-080	0.864	8.56	≥158	60	-35.0	
HS-320	0.861	29.5	≥220	101	-15.0	
HS-680	0.875	70.5	≥251	110	-15.0	
HS-960	0.876	96.5	≥238	98	-20.0	
HU-S20	0.820	7.12	≥158	109	-37.5	
HU-S30	0.827	13.47	≥204	117	-25.0	
HU-S40	0.834	19.62	≥228	123	-20.0	
HU-S60	0.841	28.72	≥232	128	-17.5	
HU-S80	0.847	43.89	≥256	127	-15.0	
HY-L30	0.832	12.73	≥190	105	-45.0	
HY-030	0.830	12.43	≥204	112	-24.0	
HY-040	0.834	19.57	≥230	122	-15.0	
HY-060	0.842	36.82	≥240	131	-15.0	
HY-080	0.850	47.3	≥260	128	-12.0	

## 유동파라핀(Liquid Paraffin Series)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Color ASTM	Application
UDP-80L	0.863	8.56	≥158	-35.0	+30	윤활유 및 석유화학 응용제품, 섬유유제, 실사 코팅제, 인쇄잉크 등의 원료. 비료 공업 고결방지제. 식품 첨가물, 의약품, 화장품, 방제약제(유제), 농약용 Spray Oil 등의 원료. 천연고무, 합성고무, 특수고무 - 증량제, 배합유. Master Batch - Additive(첨가제). PP, PE - 희석제, 가소제, 증량제.
UDP-200	0.853	20.5	≥210	-17.5		
UDP-310	0.861	29.5	≥220	-15.0		
UDP-680	0.873	68.5	≥235	-15.0		
UDP-960	0.876	96.2	≥238	-20.0		
UDP-30L	0.829	12.7	≥206	-25.0		
UDP-40L	0.829	19.6	≥230	-12.5		
UDP-60L	0.835	35.7	≥242	-15.0		

# 기계유(Machine Oil)

## 석유계 기계유(Mineral Bases Machine Oil Series)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC 2	0.7784	1.98~2.42	80 ↑	-10 ↓	-	1a	<b>Mineral</b> 무 첨가 순 광유. 고도로 정제된 윤활기유로 제조하였기 때문에 유수분리 및 항 유화성이 우수 각종 산업기계 운전애 사용, 온도 및 하중이 극심하지 않은 곳의 윤활에 사용 경하중 고속회전기계, 고속공작기계, 정밀기계의 기계유, 방청유, 절삭유제, 소입유 등의 Base Oil 로 사용
LAC 3	0.7866	2.88~3.52	80 ↑	-10 ↓	-		
LAC 5	0.7955	4.14~5.06	80 ↑	-10 ↓	-		
LAC 7	0.8522	6.12~7.48	130 ↑	-10 ↓	78		
LAC 10	0.8542	9.00~11.0	130 ↑	-10 ↓	80		
LAC 15	0.8560	13.5~ 16.5	160 ↑	-10 ↓	80		
LAC 22	0.8561	19.8~24.2	150 ↑	-10 ↓	100		
LAC 32	0.8630	28.8~35.2	150 ↑	-10 ↓	100		
LAC 46	0.8754	41.4~56.0	160 ↑	-10 ↓	100		
LAC 68	0.8765	61.2~74.8	160 ↑	-10 ↓	100		
LAC 100	0.8765	90.0~110.0	160 ↑	-10 ↓	100		
LAC 150	0.8785	135~165	160 ↑	-10 ↓	100		
LAC 220	0.8754	198~242	160 ↑	-10 ↓	100		
LAC 320	0.8765	288~352	160 ↑	-10 ↓	100		
LAC 460	0.8785	414~506	160 ↑	-10 ↓	100		

## 합성유 폴리알파올레핀 기계유(Synthetic Polyalphaolefins Machine Oil : PAO Basestock)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC Syn 5	0.7907	4.14~5.06	160 ↑	-40 ↓	-	1a	<b>PAO</b> 저온유동성, 고점도지수, 저 휘발성, 높은 열 산화 안정성, 가수분해 안정성과 적합성, 무독성, 윤활성 우수 사용범위가 매우 넓다, 유수분리 및 항유화성 우수, 온도 및 하중이 극심 한 곳의 윤활에 사용,
LAC Syn 7	0.8076	6.12~7.48	180 ↑	-40 ↓	-		
LAC Syn 10	0.8220	9.00~11.0	180 ↑	-40 ↓	120		
LAC Syn 15	0.8230	13.5~ 16.5	200 ↑	-40 ↓	120		
LAC Syn 22	0.8230	19.8~24.2	210 ↑	-40 ↓	140		
LAC Syn 32	0.8231	28.8~35.2	220 ↑	-40 ↓	140		
LAC Syn 46	0.8305	41.4~56.0	230 ↑	-40 ↓	140		
LAC Syn 68	0.8315	61.2~74.8	230 ↑	-40 ↓	140		
LAC Syn 100	0.8315	90.0~110.0	230 ↑	-40 ↓	140		
LAC Syn 150	0.8330	135~165	230 ↑	-40 ↓	140		
LAC Syn 220	0.8350	198~242	240 ↑	-40 ↓	140		
LAC Syn 320	0.8350	288~352	240 ↑	-40 ↓	140		

## 합성유 에스테르 기계유(Synthetic Ester Basestock Machine Oil)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC DE 5	0.9150	4.14~5.06	200 ↑	-40 ↓	-	1a	Ester 고온-저온 안정성 우수, 극압 윤활성 우수, 생분해성 높다., 점도-온도 관계 안정, 첨가제 용해도 우수, 낮은 증발감량, 매끄러운 촉감의 윤활성, 마찰저항 낮다, 사용범위가 매우 넓다,
LAC DE 7	0.9202	6.12~7.48	200 ↑	-40 ↓	-		
LAC DE 10	0.9220	9.00~11.0	200 ↑	-40 ↓	130		
LAC DE 15	0.9230	13.5~ 16.5	200 ↑	-40 ↓	130		
LAC DE 22	0.9231	19.8~24.2	210 ↑	-40 ↓	130		
LAC DE 32	0.9233	28.8~35.2	220 ↑	-40 ↓	60		
LAC DE 46	0.9240	41.4~56.0	230 ↑	-40 ↓	60		
LAC DE 68	0.9240	61.2~74.8	230 ↑	-30 ↓	60		
LAC DE 100	0.9501	90.0~110.0	230 ↑	-30 ↓	80		
LAC DE 150	0.9520	135~165	230 ↑	-30 ↓	70		
LAC DE 220	0.9530	198~242	240 ↑	-30 ↓	70		
LAC DE 320	0.9605	288~352	240 ↑	-30 ↓	70		

## 합성유 폴리알파올레핀 & 에스테르 기계유

### (Synthetic Polyalphaolefins & Ester Basestock Machine Oil : PAO & Ester)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
LAC PE 5	0.8305	4.14~5.06	180 ↑	-40 ↓	-	1a	PAO/Ester 고온-저온 안정성 우수 극압 윤활성 우수, 산화안정성 우수, 점도 온도 관계 안정, 첨가제 용해도 우수, 낮은 증발감량, 마찰저항 낮다, 사용범위가 매우 넓다, 온도 및 하중이 극심 곳의 윤활에 사용.
LAC PE 7	0.8522	6.12~7.48	180 ↑	-40 ↓	-		
LAC PE 10	0.8542	9.00~11.0	180 ↑	-40 ↓	110		
LAC PE 15	0.8570	13.5~ 16.5	200 ↑	-40 ↓	120		
LAC PE 22	0.8561	19.8~24.2	210 ↑	-40 ↓	120		
LAC PE 32	0.8630	28.8~35.2	220 ↑	-40 ↓	130		
LAC PE 46	0.8754	41.4~56.0	230 ↑	-40 ↓	130		
LAC PE 68	0.8765	61.2~74.8	230 ↑	-30 ↓	140		
LAC PE 100	0.8765	90.0~110.0	230 ↑	-30 ↓	140		
LAC PE 150	0.8785	135~165	230 ↑	-30 ↓	140		
LAC PE 220	0.8754	198~242	240 ↑	-30 ↓	140		
LAC PE 320	0.8765	288~352	240 ↑	-30 ↓	140		

## 베어링유(Bearing Oil)

### 석유계 베어링유(Mineral Bases Bearing Oil Series)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
Bearing 2	0.7784	1.98~2.42	80 ↑	-10 ↓	-	1a	<b>Mineral</b> 점도 다양-선택적 사용 윤활면에 강한 유막 형성, 금속의 마찰과 마모 방지, 기계 수명 연장. 부식-녹 방지성 우수. 순환식, 유욕식, 비밀식 급유 방법으로 각종 기계 베어링부 윤활유로 사용 경하-중 고속회전기계, 고속공작기계, 정밀기계의 기계유
Bearing 3	0.7866	2.88~3.52	80 ↑	-10 ↓	-		
Bearing 5	0.7955	4.14~5.06	80 ↑	-10 ↓	-		
Bearing 7	0.8522	6.12~7.48	130 ↑	-10 ↓	78		
Bearing 10	0.8542	9.00~11.0	130 ↑	-10 ↓	80		
Bearing 15	0.8560	13.5~ 16.5	160 ↑	-10 ↓	80		
Bearing 22	0.8561	19.8~24.2	150 ↑	-10 ↓	100		
Bearing 32	0.8630	28.8~35.2	150 ↑	-10 ↓	100		
Bearing 46	0.8754	41.4~56.0	160 ↑	-10 ↓	100		
Bearing 68	0.8765	61.2~74.8	160 ↑	-10 ↓	100		
Bearing 100	0.8765	90.0~110.0	160 ↑	-10 ↓	100		
Bearing 150	0.8785	135~165	160 ↑	-10 ↓	100		
Bearing 220	0.8754	198~242	160 ↑	-10 ↓	100		
Bearing 320	0.8765	288~352	160 ↑	-10 ↓	100		
Bearing 460	0.8785	414~506	160 ↑	-10 ↓	100		

### 합성유 폴리알파올레핀 베어링유(Synthetic Polyalphaolefins Bearing Oil : PAO Basestock)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
Bearing Syn 5	0.7907	4.14~5.06	160 ↑	-40 ↓	-	1a	<b>PAO</b> 저온유동성 우수, 고 점도지수, 저 휘발성, 높은 열 산화 안정성, 가수분해 안정성, 무독성, 유수분리 및 항유화성 우수, 순환식, 유욕식, 비밀식 급유 경하-중 고속회전기계, 고속공작기계 및 정밀기계의 기계유
Bearing Syn 7	0.8076	6.12~7.48	180 ↑	-40 ↓	-		
Bearing Syn 10	0.8220	9.00~11.0	180 ↑	-40 ↓	120		
Bearing Syn 15	0.8230	13.5~ 16.5	200 ↑	-40 ↓	120		
Bearing Syn 22	0.8230	19.8~24.2	210 ↑	-40 ↓	140		
Bearing Syn 32	0.8231	28.8~35.2	220 ↑	-40 ↓	140		
Bearing Syn 46	0.8305	41.4~56.0	230 ↑	-40 ↓	140		
Bearing Syn 68	0.8315	61.2~74.8	230 ↑	-40 ↓	140		
Bearing Syn 100	0.8315	90.0~110.0	230 ↑	-40 ↓	140		
Bearing Syn 150	0.8330	135~165	230 ↑	-40 ↓	140		
Bearing Syn 220	0.8350	198~242	240 ↑	-40 ↓	140		
Bearing Syn 320	0.8350	288~352	240 ↑	-40 ↓	140		

## 합성유 에스테르 베어링유(Synthetic Ester Basestock Bearing Oil Series)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
Bearing DE 5	0.9150	4.14~5.06	200 ↑	-40 ↓	-	1a	Ester 고온-저온 안정성우수 휘발성, 높은 열 산화 안정성, 무독성, 극압 윤활성 우수(터보차저, 항공기 베어링), 유수분리 및 항유화성 우수, 순환식, 유육식, 비밀식 급유 방법으로 각종 기계 베어링부 윤활유로 사용, 경하-중 고속회전기계, 고속공작기계, 정밀기계의 기계유
Bearing DE 7	0.9202	6.12~7.48	200 ↑	-40 ↓	-		
Bearing DE 10	0.9220	9.00~11.0	200 ↑	-40 ↓	130		
Bearing DE 15	0.9230	13.5~ 16.5	200 ↑	-40 ↓	130		
Bearing DE 22	0.9231	19.8~24.2	210 ↑	-40 ↓	130		
Bearing DE 32	0.9233	28.8~35.2	220 ↑	-40 ↓	60		
Bearing DE 46	0.9240	41.4~56.0	230 ↑	-40 ↓	60		
Bearing DE 68	0.9240	61.2~74.8	230 ↑	-30 ↓	60		
Bearing DE 100	0.9501	90.0~110.0	230 ↑	-30 ↓	80		
Bearing DE 150	0.9520	135~165	230 ↑	-30 ↓	70		
Bearing DE 220	0.9530	198~242	240 ↑	-30 ↓	70		
Bearing DE 320	0.9605	288~352	240 ↑	-30 ↓	70		

## 합성유 폴리알파올레핀 & 에스테르 베어링유

### (Synthetic Polyalphaolefins & Ester Basestock Bearing Oil : PAO & Ester)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Corrosive Test (100°C×3h)	Application
Bearing PE 5	0.8305	4.14~5.06	180 ↑	-40 ↓	-	1a	PAO/Ester 고온-저온 안정성우수, 높은 열 산화 안정성 첨가제 용해도 우수, 극압 윤활성 우수 낮은 증발감량, 매끄러운 촉감의 윤활성 우수, 마찰저항 낮다, 사용범위가 매우 넓다, 유수분리, 항유화성, 방청성능 우수, 온도 및 하중이 극심 곳의 윤활에 사용.
Bearing PE 7	0.8522	6.12~7.48	180 ↑	-40 ↓	-		
Bearing PE 10	0.8542	9.00~11.0	180 ↑	-40 ↓	110		
Bearing PE 15	0.8570	13.5~ 16.5	200 ↑	-40 ↓	120		
Bearing PE 22	0.8561	19.8~24.2	210 ↑	-40 ↓	120		
Bearing PE 32	0.8630	28.8~35.2	220 ↑	-40 ↓	130		
Bearing PE 46	0.8754	41.4~56.0	230 ↑	-40 ↓	130		
Bearing PE 68	0.8765	61.2~74.8	230 ↑	-30 ↓	140		
Bearing PE 100	0.8765	90.0~110.0	230 ↑	-30 ↓	140		
Bearing PE 150	0.8785	135~165	230 ↑	-30 ↓	140		
Bearing PE 220	0.8754	198~242	240 ↑	-30 ↓	140		
Bearing PE 320	0.8765	288~352	240 ↑	-30 ↓	140		

# 유압작동유(Hydraulic Oil)

## 석유계 유압작동유(Mineral Base Hydraulic Oil)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt °C		Flash Point °C	Viscosity Index	Pour Point °C	Color ASTM	Application
		40	100					
Dalrija HV 22	0.871	22	4.6	≥210	109	-25	L 1.0	석유계. 내마모성. 유압장치 및 산업기계 시스템 작동유,
Dalrija HV 32	0.872	32	5.4	≥224	102	-22.5	L 1.0	
Dalrija HV 46	0.873	46	6.5	≥228	102	-22.5	L 1.5	
Dalrija HV 68	0.884	68	8.7	≥236	102	-20	L 1.5	
Dalrija HV 100	0.876	100	11.5	≥242	102	-15	L 1.5	

## 합성유 폴리알파올레핀 유압작동유(Synthetic Polyalphaolefins Hydraulic Oil : PAO Basestock)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt °C		Flash Point °C	Viscosity Index	Pour Point °C	Color ASTM	Application
		40	100					
Dalrija Syn 32	0.82	30	5.8	≥230	139	-35	L 1.5	PAO. 저온 - 고온 안정성, 고 점도지수, 저 휘발성, 높은 열 산화 안정성, 가수분해 안정성, 무독성,
Dalrija Syn 46	0.83	46	8	≥250	146	-35	L 1.5	
Dalrija Syn 68	0.83	68	10	≥260	142	-35	L 1.5	
Dalrija Syn 100	0.83	100	14	≥260	142	-35	L 1.5	

## 합성유 에스테르 유압작동유(Synthetic Ester Basestock Hydraulic Oil)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt °C		Flash Point °C	Viscosity Index	Pour Point °C	Color ASTM	Application
		40	100					
Dalrija DE 32	0.92	30	5.8	≥230	139	-35	L 1.5	Ester, 저온 - 고온 안정성, 고 점도지수, 저 휘발성, 높은 열 산화 안정성, 낮은 마찰 저항계수,
Dalrija DE 46	0.92	46	8	≥250	146	-35	L 1.5	
Dalrija DE 68	0.92	68	10	≥260	142	-35	L 1.5	
Dalrija DE 100	0.95	100	14	≥260	142	-35	L 1.5	

## 합성유 폴리알파올레핀 & 에스테르 유압작동유

(Synthetic Polyalphaolefins & Ester Basestock Hydraulic Oil : PAO & Ester)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt °C		Flash Point °C	Viscosity Index	Pour Point °C	Color ASTM	Application
		40	100					
Dalrija PE 32	0.86	32	6.7	≥230	130	-35	L 1.0	<b>PAO &amp; Ester</b> 마찰, 마모, 미끄럼 특성 우수 고온, 고압, 극저온, 극심한 윤활 조건에 사용
Dalrija PE 46	0.87	46	8.6	≥230	130	-35	L 1.5	
Dalrija PE 68	0.87	68	12.0	≥230	140	-35	L 1.5	
Dalrija PE 100	0.87	100	16.0	≥240	140	-35	L 1.5	

## 난연성 유압작동유(PAGs Incombustibility Hydraulic Oil)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt	PH	Characteristics and application
		40 °C		
Dalrija HF 46	1.05	46	9.5	PAGs,

## 압축기유(Compressor oil)

### 석유계 압축기유 : Mineral Base Compressor Oil Series

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Comp 32	32.	≥220	-22.5	125	0.01 ↓	0.01 ↓	0.05 ↓
Comp 46	46	≥230	-22.5	117			
Comp 68	68	≥230	-20.0	102			
Comp 100	100	≥240	-15.0	107			

### 합성유 폴리알파올레핀 압축기유(Synthetic Polyalphaolefins Compresso Oil : PAO Basestock)

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Comp Syn 1032	32.	≥220	-35	135	0.01 ↓	0.01 ↓	0.05 ↓
Comp Syn 1046	46	≥230	-35	138			
Comp Syn 1068	68	≥230	-35	141			
Comp Syn 1100	100	≥250	-35	142			

### 합성유 에스테르 압축기유(Synthetic Ester Basestock Compressor Oil)

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Comp DE 2032	32.	≥220	-35	82	0.01 ↓	0.01 ↓	0.05 ↓
Comp DE 2046	46	≥220	-35	81			
Comp DE 2068	68	≥230	-35	85			
Comp DE 2100	100	≥230	-35	86			

### 합성유 폴리알파올레핀 & 에스테르 압축기유

### (Synthetic Polyalphaolefins & Ester Basestock Compressor Oil : PAO & Ester)

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Comp PE 3032	32.	≥220	-35	143	0.01 ↓	0.01 ↓	0.05 ↓
Comp PE 3046	46	≥230	-35	141			
Comp PE 3068	68	≥230	-35	145			
Comp PE 3100	100	≥230	-35	142			



## 냉동기유(Refrigerating machine oil)

### 합성유 폴리알파올레핀 냉동기유

#### (Synthetic Polyalphaolefins Refrigerating Machine Oil : PAO Basestock)

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Hi Freeze Syn 22	22	≥220	-40	135	0.01 ↓	0.01 ↓	0.05 ↓
Hi Freeze Syn 32	32.	≥220	-40	135			
Hi Freeze Syn 46	46	≥230	-40	138			
Hi Freeze Syn 68	68	≥230	-40	141			
Hi Freeze Syn 100	100	≥250	-40	142			

### 합성유 에스테르 냉동기유(Synthetic Ester Basestock Refrigerating Machine Oil)

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Hi Freeze DE 22	22	≥220	-40	82	0.01 ↓	0.01 ↓	0.05 ↓
Hi Freeze DE 32	32.	≥220	-40	82			
Hi Freeze DE 46	46	≥220	-40	81			
Hi Freeze DE 68	68	≥230	-40	85			
Hi Freeze DE 100	100	≥230	-40	86			

### 합성유 폴리알파올레핀 & 에스테르 냉동기유

#### (Synthetic Polyalphaolefins & Ester Basestock Refrigerating Machine Oil : PAO & Ester)

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mgKOH/g
Hi Freeze PE 22	22	≥220	-40	143	0.01 ↓	0.01 ↓	0.05 ↓
Hi Freeze PE 32	32.	≥220	-40	143			
Hi Freeze PE 46	46	≥230	-40	141			
Hi Freeze PE 68	68	≥230	-40	145			
Hi Freeze PE 100	100	≥230	-40	142			

## 진공 펌프유(Vacuum Pump Oil)

Separation	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Steam pressure Torr (25°C)	Others
EM 150	15	≥200	-15	5 × 10 <sup>-4</sup>	Mineral
EM 350	46	≥210	-15		Mineral
EM 300	68	≥210	-15		Mineral
EM Syn 500	46	≥210	-40		PAO

## 열매체유(Heat Transfer Oil)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Corrosive Test (100°C×3h)	Others
THERM 1010	0.87	10.0	≥158	-40.0	1a	Mineral
THERM 1022	0.82	22.0	≥240	-50.0	1a	PAOs
THERM 1350	0.86	32.0	≥210	-22.5	1a	Mineral
THERM 1450	0.87	46.0	≥230	-15.0	1a	Mineral
THERM 4810	0.95	32.0	≥270	-10.0	1a	Polyol Ester
Water Glycol Q 510	0.91	46.0	pH 9.5	-35.0	1a	PAGs

## 프로세스유(Process oil series)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Aniline Point °C	Pour Point °C	Color ASTM	Total Acid Value mgKOH/g
P-1	0.872	10.5	≥160	89	-15	L0.5	0.01
P-2	0.867	22.5	≥210	92	-15		
P-3	0.872	45.7	≥210	115	-12.5		
P-4	0.879	96.0	≥210	110	-12.5		
P-6	0.893	460.0	≥300	129	-12.5		

## 기어유(Gear Oil)

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## 석유계 기어유(Mineral Base Gear Oil Series)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Viscosity Index	Flash Point °C	Pour Point °C	Others
Super EP 100	0.85	100	100	≥230	-12.5	Mineral
Super EP 150	0.85	150	100	≥230	-12.5	
Super EP 220	0.85	220	100	≥240	-12.5	
Super EP 320	0.85	320	100	≥250	-12.5	
Super EP 460	0.85	460	100	≥250	-12.5	

## 합성유 에스테르 기어유(Synthetic Ester Basestock Gear Oil Series)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Viscosity Index	Flash Point °C	Pour Point °C	Others
Super DE 100	0.92	100	80	≥240	-35	Ester
Super DE 150	0.90	150	70	≥250	-35	
Super DE 220	0.92	220	70	≥260	-35	
Super DE 320	0.92	320	70	≥280	-35	

## 합성유 폴리알파올레핀 & 에스테르 기어유

### (Synthetic Polyalphaolefins & Ester Basestock Gear Oil : PAO & Ester)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Viscosity Index	Flash Point °C	Pour Point °C	Others
Super PE 100	0.88	100	140	≥240	-35	PAO/Ester
Super PE 150	0.88	150	140	≥250	-35	
Super PE 220	0.88	220	140	≥260	-35	
Super PE 320	0.88	320	140	≥280	-35	

## 터빈유(Turbine Oil)

### 석유계 터빈유(Mineral Base Turbine Oil Series)

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Separation	Specific Gravity 15/4°C	Viscosity cSt		Flash Point °C	Total Acid mgKOH/g	Pour Point °C	Corrosive Test (100°C×3h)
		40°C	100°C				
THRBIN 32	0.871	32	5.3	≥210	0.01	-15.0	1a
THRBIN 46	0.877	46	6.8	≥210		-15.0	
THRBIN 68	0.881	68	8.8	≥210		-12.5	
THRBIN 100	0.885	100	11.4	≥210		-12.5	

### 합성유 폴리알파올레핀 터빈유(Synthetic Polyalphaolefins Turbine Oil : PAO Basestock)

Separation	Specific Gravity 15/4°C	Viscosity cSt		Flash Point °C	Total Acid mgKOH/g	Pour Point °C	Corrosive Test (100°C×3h)
		40°C	100°C				
THRBIN Syn 32	0.88	32.0	7.0	≥230	175	-35	1a
THRBIN Syn 46	0.88	46.0	9.0	≥230	175	-35	
THRBIN Syn 68	0.88	68.0	12.0	≥230	175	-35	

### 열처리용유(Quenching oil : Heat treating oil)

#### 석유계 열처리용유(Mineral Quenching Oil)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	To burn °C	Cooling performance		Others
					Characteristic temperature	Cooling sec. (800~400 °C)	
A 101	0.870	15	≥210	230	620	2.80	Room temperature
A 201	0.875	22	≥214	250	610	3.71	
A 301	0.891	460	≥310	365	680	5.20	high temperatures

#### 수용성 열처리용유 (Water-soluble Quenching Oil)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	pH	Apply material	Concentrations (%)	Others
Quench B	1.08	300	9.5	Iron, aluminum	5~25	Substitute for oil (PAG)
Quench HF	1.08	320	9.5			

### 고온 체인오일(High Temperature Chain Oil)

Separation	Specific	Viscosity cSt	Flash Point	Viscosity	Pour Point	Others
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	Gravity 15/4°C	40°C	100 °C	°C	Index	°C	
Chain Syn 410	0.84	410	39	≥260	145	-45	PAO(40)
Chain DE 150	0.99	152	20	≥270	152	-30	Ester(8355)
Chain DE 250	0.95	250	20	≥290	92	-18	Ester(1060X)
Chain DE 320	1.00	316	32	≥270	142	-30	Ester(8361)
Chain DE 520	0.95	520	50	≥280	150	-30	Ester(8851)
Chain PE 220	0.92	220	25	≥290	143	-35	<b>PAO &amp; Ester</b>

### 그리스(Grease)

Separation	Worked Penetration	Worked Stability	Oil Separation (100°C x 24h)	Evaporation Loss (99°C x 24h)	Oxidation Stability (kgf/cm <sup>2</sup> )	Copper Corrosive Test (100°C x 24h)	Others
KR 6102	275	345	2.3	0.25	0.3	Pass	General
HM 7052M	270	325	1.3	0.38	0.4	Pass	High temperature
HB 3102	295	345	1.0	0.15	0.1	Pass	Urea

### 유출유 처리제(Oil spill dispersants)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity	Flash Point °C	Others
		cSt 40°C		
Clean 1000	0.89	13.0	≥165	Hydrocarbon Solvent Type
Clean 5000	0.88	6.0	≥145	Concentration Type

### 등화용 기름(Lamp Oil)

Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt 25°C	Flash Point °C	Refractive Index at 20°C	Saybolt Colour
Lamp 200 D	0.7995	2.25	≥77	1.4411	+30
Lamp 200 M	0.790	2.12	≥78	1.437	+30
Lamp 200 L	0.773	1.38	≥65	1.429	+30

### 함침유(Oilless Bearing Oil : PAO/Ester Basestock Biodegradable)

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Separation	Specific Gravity 15/4°C	Kinematic Viscosity cSt 40°C	Viscosity Index	Pour Point °C	Application
Oilless 2	0.82	5.0	170	-40	-40 ~ 80
Oilless 5	0.82	5.5	170	-40	-40 ~ 80
Oilless 36	0.83	36.0	170	-40	-40 ~ 80
Oilless 60	0.84	60.0	187	-40	-30 ~ 80
Oilless 70	0.84	70.0	185	-40	-30 ~ 80

### 소성가공유(Plastic working oil)

Separation	Kinematic Viscosity cSt 40°C	Flash Point °C	Four-ball Test Mpa
Heading Oil 500	46.0	≥220	0.15 ↑
Drawing & Extrusion Oil 2004	36.0	≥300	
Forging Oil 2004	46.0	≥220	

### 유압작동유 및 스텝면유 겸용으로 사용 할 수 있는 수용성 절삭유제 (Hydraulic oil and slide-way fluid and water-solubility metal-working fluid)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Total Acid mgKOH/g	Pour Point °C	Corrosive Test (100°C×3h)
CTE 600	0.871	68	0.01	-40.0	1a

### 오일 미스트(냉풍, 분무형) 가공유

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### (Oil Mist (cold, aerosol) Processed)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Total Acid mgKOH/g	Pour Point °C	Corrosive Test (100°C×3h)
Mist 700	0.85	7	0.05	-30	1a
MIST 1000	0.86	10	0.05	-30	
MIST 1500	0.87	15	0.05	-30	
MIST 2200	0.87	22	0.05	-30	
MIST 3200	0.87	32	0.05	-30	
MIST 4600	0.84	46	0.05	-35	
MIST 6800	0.84	68	0.05	-35	
MIST 201A	0.84	46	0.05	-35	
MIT 1000	0.86	8.5	0.05	-30	

### 인쇄 잉크용 특수용제(Special solvents for printing inks)

Separation	Specific Gravity 15/4°C	Viscosity cSt 40°C	Flash Point °C	Pour Point °C	Aniline point (°C)	Saybolt Colour	Corrosive Test 100°C×3h	Distillation range	Others.
								I.B.P/EP	
MJ-3010	0.836	3.20	130	-15	72.0	+28	1a	262/290	Flushing Traction
MJ-3020	0.840	4.05	138	-10	77.5			280/310	
MJ-3030	0.865	4.95	138	-17.5	72.0			280/312	
MJ-3040	0.875	5.25	138	-25	70.0			280/312	
MJ-3050	0.870	6.80	142	-25	77.0	+28	1a	290/340	Drive by
MJ-3060	0.887	9.30	145	-40	73.0			+23	