



ideuk

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Synthetic lubricants & General purpose oil (White mineral oil)



1989
2000
2006



(R&D)

가 (: 0418258)
 가 (: 0742084)
 가 (: 0803923)
 (: 0439663)
 (: 0443826)



1998



- (General Purpose Oil & White Mineral oil)

- HP – 080,
- HS - 080, 320, 960,
- HU - S20, S40, S60, S80,
- HY – L30, 030, 040, 060, 080,



- UDP - 80L, 200, 310, 680, 960, 30L, 40L, 60L,

- : LAC 2, 3, 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320, 460
- : LAC SYN 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320
 LAC DE 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320
 LAC PE 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320

- : Bearing 2, 3, 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320, 460
- : Bearing SYN 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320
 Bearing DE 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320
 Bearing PE 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320

* SYN : Polyalphaolefin(PAO), DE : Ester, PE : PAO/Ester, HF : Polyalkylene glycol(PAG),

-
- : Dalrija HV 22, 32, 46, 68, 100
- : PAO : Dalrija SYN 32, 46, 68, 100
- : Dalrija DE 32, 46, 68, 100
- PAO & : Dalrija PE 32, 46, 68, 100
- : Dalrija HF 46

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- : Comp 32, 46, 68
- : Comp SYN 1032, 1046, 1068 , 1100
- : Comp DE 2032, 2046, 2068 , 2100
- : Comp PE 3032, 3046, 3068 , 3100

- **(Ester, Alkylbenzene)**

- : HI Freeze Syn 22, 32, 46, 68, 100
- : HI Freeze DE 22, 32, 46, 68, 100
- : HI Freeze PE 22, 32, 46, 68, 100



* SYN : Polyalphaolefin(PAO), DE : Ester, PE : PAO/Ester, HF : Polyalkylene glycol(PAG),

- - : EM 150, 350, 300
 - : EM SYN 500

- - Mineral Oil Type : THERM 1010, 1350, 1450
 - Synthetic Oil Type : THERM 1022
 - Polyol Ester Type : THERM 4810
 - Water Glycol Type : Q 510

- - Paraffin : P - 1, 2, 3, 4, 6

- - Mineral Oil Type : Super EP 100, 150, 220, 320, 460
 - Synthetic Oil Type : Super DE 100, 150, 220, 320
Super PE 100, 150, 220, 320



- - : Thrbin 32, 46, 68, 100
 - : Thrbin SYN 32, 46, 68,

- - : A 101, 201, 301
 - : Quench B, HF

- - Chain SYN 410
 - Chain DE 150, 250, 320, 520
 - Chain PE 220

- - EP 2 : KR 6102, High Temperature : HM 7052M, Urea : HB 3102

- - Clean 1000, 5000



- 가 ()
 - MIST 700, 1000, 1500, 2200, 3200, 4600, 6800, 201A
 - MIT 1000

- 가 (Sintered Metal Bearing Oils)
 - : LAC 280, 100
 - : SYN 40K, 40K-30, 90K, P350(Oilless 80)
DE 151K, 465K, P1000

- 가 (Plastic working oil)
 - Heading Oil 500, - Drawing & Extrusion Oil 2004, - Forging Oil 2004

- CTE 600



(General Purpose Oil : White Mineral Oil)

가 , , Spray Oil
 Master Batch – Additive(가). PP, PE - , 가 ,
 Sealing Layer. , Coating Oils,
 , Aluminium Foil - Drawing Stamping

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Viscosity Index	Pour Point
HP - 080	0.875	7.85	180	78	-25.0
HS - 080	0.864	8.56	158	60	-35.0
HS - 320	0.861	29.5	220	101	-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

가

(Liquid Paraffin Series)

- 가 , Spray Oil
- , - , 가
- Master Batch – Additive(가). PP, PE - , 가
- - Sealing Layer.
- - Coating Oils,
- , Aluminium Foil - Drawing Stamping

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Pour Point	Color ASTM
UDP - 80L	0.863	8.56	158	- 35.0	+30
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	

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(Machine Oil Series)

- (Mineral, PAO, Ester, PAO & Ester : Oil)

Separation	Specific Gravity 15/4	Viscosity cSt 40	Viscosity Index	Others
LAC 2 ~ 460	0.77	ISO VG 2 ~ 460	80	Mineral
LAC SYN 5 ~ 460	0.81	ISO VG 5 ~ 460	120	PAO
LAC DE 5 ~ 320	0.90	ISO VG 5 ~ 320	80	Ester
LAC PE 5 ~ 320	0.82	ISO VG 5 ~ 320	120	PAO/Ester

(Bearing Oil Series)

- (Mineral, PAO, Ester, PAO & Ester : Oil)

Separation	Specific Gravity 15/4	Viscosity cSt 40	Viscosity Index	Others
Bearing 2 ~ 460	0.77	ISO VG 2 ~ 460	80	Mineral
Bearing SYN 5 ~ 460	0.81	ISO VG 5 ~ 460	120	PAO
Bearing DE 5 ~ 320	0.91	ISO VG 5 ~ 320	80	Ester
Bearing PE 5 ~ 320	0.82	ISO VG 5 ~ 320	120	PAO/Ester

ISO VG 2, 3, 5, 7, 10, 15, 22, 32, 46, 68, 100, 150, 220, 320, 460

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(Hydraulic Oil)

- (Mineral Base Hydraulic Oil Series)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Viscosity Index	Pour Point	Others
		40	100				
Dalrija HV 22	0.871	22	4.6	210	109	-25	Mineral
Dalrija HV 32	0.872	32	5.7	220	102	-22.5	
Dalrija HV 46	0.873	46	7.2	220	102	-22.5	
Dalrija HV 68	0.874	68	8.8	230	102	-20	
Dalrija HV 100	0.876	100	11.8	240	102	-15	

- (Synthetic Polyalphaolefins Hydraulic Oil : PAO Basestock)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Viscosity Index	Pour Point	Others
		40	100				
Dalrija Syn 32	0.82	30	5.8	230	140	-35	PAO
Dalrija Syn 46	0.83	46	8.0	250	146	-35	
Dalrija Syn 68	0.83	68	10.5	260	142	-35	
Dalrija Syn 100	0.83	100	14.0	260	142	-35	

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(Synthetic Base Hydraulic Oil)

(Synthetic Ester Basestock Hydraulic Oil)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Viscosity Index	Pour Point	Others
		40	100				
Dalrija DE 32	0.92	32	6.7	230	130	- 35	Ester
Dalrija DE 46	0.92	46	8.6	230	130	- 35	
Dalrija DE 68	0.92	68	12.0	230	140	- 35	
Dalrija DE 100	0.95	100	16.0	240	140	- 35	

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

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Viscosity Index	Pour Point	Others
		40	100				
Dalrija PE 32	0.86	32	6.7	230	130	- 35	PAO/Ester
Dalrija PE 46	0.87	46	8.6	230	130	- 35	
Dalrija PE 68	0.87	68	12	230	140	- 35	
Dalrija PE 100	0.87	100	16	240	140	- 35	

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(Compressor oil)

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(Mineral Base Compressor Oil)

Separation	Viscosity cSt 40	Flash Point	Pour Point	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			

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(Synthetic Polyalphaolefins Compresso Oil : PAO Basestock)

Separation	Viscosity cSt 40	Flash Point	Pour Point	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			

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(Compressor oil)

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- (Synthetic Ester Basestock Compressor Oil)

Separation	Viscosity cSt 40	Flash Point	Pour Point	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			

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

Separation	Viscosity cSt 40	Flash Point	Pour Point	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			

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(Refrigerating machine oil)

(Synthetic Polyalphaolefins Refrigerating Machine Oil : PAO Basestock)

Separation	Viscosity cSt 40	Flash Point	Pour Point	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mg KOH/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			

(Synthetic Ester Basestock Refrigerating Machine Oil)

Separation	Viscosity cSt 40	Flash Point	Pour Point	Viscosity Index	Ash (%)	Moisture (ppm)	Total Acid Value mg KOH/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			

Above value is the latest test result and it can be some difference in extent that there is no effect in performance.

(Refrigerating machine oil)

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

Separation	Viscosity cSt 40	Flash Point	Pour Point	Viscosity I ndex	Ash (%)	Moisture (p pm)	Total Acid Value mg KOH/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			

(Vacuum Pump Oil)

Separation	Viscosity cSt 40	Flash Point	Pour Point	Steam pressure Torr (25)	Others
EM 150	15	200	-15.0	5×10^{-4}	Mineral
EM 350	46	210	-15.0		Mineral
EM 300	68	210	-15.0		Mineral
EM Syn 500	46	210	-40.0		PAO

Above value is the latest test result and it can be some difference in extent that there is no effect in performance.

Synthetic lubricants & General purpose oil (White mineral oil)

(Heat transfer oil)

- Therm 1350 : -20 ~ +320 .
- THERM 4810 Polyol Ester 100% : -30 ~ +360 .
- Therm 1010, 1022 - - .
- Water Glycol Q 510 : .
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- 가 , , 가 , ,

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Pour Point	Color ASTM	Corrosive Test (100 x3h)	Others
THERM 1010	0.87	10.0	158	-40.0	L0.5	1a	Mineral
THERM 1022	0.82	22.0	240	-50.0	L0.5	1a	PAOsl
THERM 1350	0.86	32.0	210	-22.5	L0.5	1a	Mineral
THERM 1450	0.87	46.0	230	-15.0	L0.5	1a	Mineral
THERM 4810	0.95	32.0	270	-10.0	L0.5	1a	Polyol Ester
Water Glycol Q 510	0.90	42.0~50.0	pH 9.5	-35	L0.5	1a	PAG

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(Gear Oil)

- (Mineral Base Gear Oil Series)**

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Viscosity Index	Flash Point	Pour Point	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	

- (Synthetic Ester Basestock Gear Oil Series)**

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Viscosity Index	Flash Point	Pour Point	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	

- & (Synthetic Polyalphaolefins & Ester Basestock Gear Oil : PAO & Ester)**

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Viscosity Index	Flash Point	Pour Point	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	

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(Turbine oil series)

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(Mineral Base Turbine Oil Series)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Total Acid mgKOH/g	Pour Point	Corrosive Test (100 x3h)
		40	100				
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	

(Synthetic Polyalphaolefins Turbine Oil : PAO Basestock)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Total Acid mgKOH/g	Pour Point	Corrosive Test (100 x3h)
		40	100				
THRBIN Syn 32	0.88	32	7	230	175	-35	1a
THRBIN Syn 46	0.88	46	9	230	175	-35	
THRBIN Syn 68	0.88	68	12	230	175	-35	

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(Quenching oil : Heat treating oil)

Quenching oil

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(Mineral Base Quenching Oil)

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

(Water-soluble Quenching Oil)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 40	pH		(%)	Others
Quench B	1.08	300	9.5	,	5~25	(PAG)
Quench HF	1.08	320	9.5			

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(High temperature chain oil)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Viscosity Index	Pour Point	Others
		40	100				
Chain Syn 410	0.84	410	39	260	145	-45	PAO(4)
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)

(Grease)

Separation	Worked Penetration	Worked Stability	Oil Separation (100 24h)	Evaporation Loss (99 24h)	Oxidation Stability (kgf/cm ²)	Copper Corrosive Test (100 x24h)	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

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(Oil spill dispersants)

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

(Lamp Oil)

Separation	Specific Gravity 15/4	Kinematic Viscosity cSt 25	Flash Point	Refractive Index at 20	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

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- :
• : 3~10%

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

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- Ester Basestock Biodegradable Mist MWFs

Separation	Specific Gravity 15/4	Viscosity cSt 40	Total Acid mgKOH/g	Pour Point	Corrosive Test (100 ×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	

가