

ideuk

Industrial Lubricants

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ideuk co., ltd.

Company History

- 1989.09 Ideuk lubricant establishment
- 1998.12 Factory registration
- 1998.12 Lubricant refined industry statement
(Ministry of Commerce, industry and energy)
- 2000.01 Conversion by ideuk co., ltd.
- 2000.06 ISO 9001 certification
- 2000.09 Machine oil (inclusion 4 items) KS certification
- 2001.09 Small and medium business
administration excellent product mark
certification (5 items)
- 2002.01 Venture business certification
- 2002.02 Corporation attachment Institute for Chemical
Research certification (Korea Industrial
Technology Association)
- 2002.03 Small and medium business administration
excellent product mark certification (12 items)
- 2002.04 Trade business statement
- 2002.04 ISO 14001 certification
- 2002.05 Korea Standard Association top goods
certification (industry lubricant)
- 2002.07 Metalworking fluids(MWFs)
(inclusion 5 items) KS certification addition

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Research and development results

- 1996.06 Development of new cation surfactant by inorganic matter exclusion catalyst
- 1997.06 New catalyst development of reaction Esterification
- 1998.06 Development of Silane bridge-building reaction catalyst
- 1999.05 Change of color prevention lubricant development that use refractive index (process oil, leather branch emperor, lubricant for oily medicine of fiber manufacture)
- 1999.06 High functional Oil spill processing Evolution
- 2000.04 Production technical development of cleaner production oil fewer than NASA pollution level grade (adopted law) 3 grades of industry lubricant
- 2000.06 Anticaking agent of fertilizer industry development
- 2001.04 Lubricant composite development that is used to non oil supply bearing 2001.07 Melting style water-soluble cutting fluid composite development that surface tension is improved
- 2001.08 Development of motor cycle up-shoer oil
- 2001.10 Development of non septicity water-soluble cutting fluid composite
- 2002.03 Study of water-soluble cutting fluid recycling methods that slide ways oil has septicity being flowed in
- 2002.05 Development of biodegradability ester lubricant composite
- 2002.05 Septicity of water system lubricant composite and administration trick research
- 2002.10 Development of cleaner production fluid connection technology for aluminum (alloy) processing that use Nano-technology
- 2002.10 Development of biodegradability hydraul oil composite
- 2003 present Development of water-soluble cutting fluid that use hydraulic oil and slide ways oil
- 2003 present Development of copper and copper alloy processing water-soluble cutting fluid and research for recycling method 2003 present Development of Bio- Energy that use Bio-Diesel and research connection lubricants

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Production List

- Hydraulic oil
- Industrial Gear oil
- Bearing oil
- Machine oil
- Slide - way oil
- Compressor oil
- Vacuum pump oil
- Heat transfer oil
- Heat treating oil
- Liquid Paraffin
- Turbine oil
- Refrigerating Machine oil
- Ink - fluid
- Process oil
- Anti rust oil
- Lac drill Oil
- General purpose oil
- Metalworking fluids(MWFs)
- Flushing oil

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Lubricants Specifications of Products

Universal Hydraulic Oil

Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Viscosity Index	Pour point	Color ASTM	Corrosive test (100 3h)
Dalrija 15	0.862	15.0	185	110	-40	L 1.0	1a
Dalrija 22	0.865	22.0	189	110	-40	L 1.0	1a
Dalrija 32	0.870	32.0	224	105	-35	L 1.0	1a
Dalrija 46	0.875	46.0	228	105	-35	L 1.5	1a
Dalrija 68	0.880	68.0	236	105	-35	L 1.5	1a
Dalrija 100	0.879	100	242	105	-30	L 1.5	1a
Dalrija 150	0.880	150	250	100	-30	L 1.5	1a
Dalrija 220	0.888	220	256	100	-30	L 1.5	1a

Very High Viscosity Index Hydraulic Oil

Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Viscosity Index	Pour Point	Color ASTM	Corrosive test (100 3h)
Dalrija HV 15	0.863	15.0	185	120	-40	L 1.0	1a
Dalrija HV 22	0.865	22.0	189	120	-40	L 1.0	1a
Dalrija HV 32	0.872	32.0	220	115	-35	L 1.0	1a
Dalrija HV 46	0.873	46.0	225	125	-35	L 1.5	1a
Dalrija HV 68	0.874	68.0	230	125	-35	L 1.5	1a
Dalrija HV 100	0.876	100	240	125	-30	L 1.5	1a
Dalrija HV 150	0.879	150	247	120	-30	L 1.5	1a
Dalrija HV 220	0.885	220	255	120	-30	L 1.5	1a

Slide Ways Oil

Product	Specific Gravity 15/4	Kinematic Viscosity cSt, 40	Flash Point	Viscosity Index	Pour Point	Color ASTM	Corrosive test (100 3h)
Rech 68	0.874	68.0	230	125	-35	L 1.5	1a
Rech 100	0.876	100	240	125	-35	L 1.5	1a
Rech 150	0.879	150	247	120	-30	L 1.5	1a
Rech 220	0.885	220	255	120	-30	L 1.5	1a
Rech 320	0.892	320	280	120	-25	L 1.5	1a

Fire Resistant Hydraulic Oil

Classification	Product	Specific Gravity 15/4	Kinematic Viscosity cSt	Flash Point	Viscosity Index	Pour Point	Color	pH	Others
			40						
Polyol - Ester	PE 300	0.9042	34.0	278	220	-27.5	Yellow	-	Die - Casting Steel Making Foundries Glass Making Offshore Oil Plastics Hydraulic-System
	PE 400	0.9100	44.0	284	180	-30.0		-	
	PE 600	0.9200	68.0	290	180	-30.0		-	
	PE 900	0.9100	90.0	296	180	-30.0		-	
Water Glycol	WG 300	1.0800	38.0	No	216	-47.5	Red	9.7	
	WG 400	1.0800	46.0	No	220	-47.5		9.7	
	WG 500	1.0800	56.0	No	220	-47.5		9.7	

Machine Oil

Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Pour Point	Color ASTM
LAC 2	0.826	2	80	-50	2
LAC 3	0.824	3	80	-50	2
LAC 5	0.856	5	80	-10	2
LAC 7	0.877	7	130	-15	2
LAC 10	0.862	10	130	-20	2
LAC 15	0.861	15	150	-20	2
LAC 22	0.862	22	150	-15	2
LAC 32	0.863	32	150	-10	2
LAC 46	0.875	46	150	-10	2
LAC 68	0.875	68	200	-12.5	2
LAC100	0.879	100	200	-12.5	2
LAC150	0.884	150	200	-12.5	2
LAC220	0.891	220	200	-12.5	2
LAC320	0.891	320	200	-12.5	2
LAC460	0.893	460	200	-12.5	2

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Bearing Oil Series

Product	Specific Gravity 15/4	Kinematic Viscosity (40 , cSt)	Flash Point	Viscosity Index	Pour Point
Bearing 2	0.826	2	80	-	-50
Bearing 3	0.824	3	80	-	-10
Bearing 5	0.856	5	80	-	-10
Bearing 7	0.877	7	130	100	-10
Bearing 10	0.862	10	130	100	-10
Bearing 15	0.861	15	170	100	-25
Bearing 22	0.862	22	150	100	-10
Bearing 32	0.863	32	220	100	-32.5
Bearing 46	0.875	46	160	100	-10
Bearing 68	0.875	68	160	100	-10
Bearing 100	0.879	100	160	100	-10
Bearing 150	0.884	150	160	100	-10
Bearing 220	0.891	220	160	100	-10
Bearing 320	0.891	320	290	100	-10
Bearing 460	0.893	460	320	100	-10

Heat Treating Oil

Product	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	To burn	Cooling performance	
		40	100			characteristic temperature	Cooling sec. (800 400)
A 101	0.870	17.0	4.50	210	230	620	2.80
A 201	0.875	23.6	5.50	214	250	610	3.71
A 301	0.891	491.1	28.1	310	365	680	5.2

Process Oil

Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Aniline Point	Pour Point	Color ASTM	Total Acid Value mg KOH/g
P-1	0.872	10.5	160	89	-17.5	L0.5	0.01
P-2	0.867	22.5	220	92	-17.5	L0.5	0.01
P-3	0.872	45.7	210	115	-17.5	L1.5	0.01
P-4	0.879	96.0	250	110	-15.0	L1.5	0.01
P-6	0.893	480	302	129	-12.5	L1.5	0.01

Metal Working Fluid (Water - Soluble)

Classification	Product	Grade	content %	To mix			
				pH	surface tension (dyn/cm)	Coefficient of resistance	ml
Metal Working Fluid (Water - Soluble)	CTE - 100	W1/1	99	10	28~35	0.31μ	0.5
	CTE - 200	W2/1	30~35	9.8			0
	CTE - 200A	W2/1	30~35	9.5			0
	CTE - 200B	W2/1	30~35	9.5			0
	CTE - 200C	W2/1	30~40	9.5			0
	CTE - 200D	W2/3	98~100	9.5			0
	CTE - 200E	W2/1	98~100	9.5			0
	CTE - 200F	W2/1	98~100	9.5			0

Metal Working Fluid Oil (No Water - Soluble)

Product	Grade	Kinematic Viscosity cSt 40	Fatty %	Chlorine %	Sulfur %	Corrosive test		Flash Point	Pour Point	4ball test Mpa (kgf/cm ²)
						100	150			
HOME CUT 104	1/4	10	3 ~ 8	-	-	-	1	130	-5	0.15(1.5)
HOME CUT 105	1/5	10	8 ~ 15	-	-	-	1	130	-5	0.15(1.5)
HOME CUT 106	1/6	10	15	-	-	-	1	130	-5	0.15(1.5)
HOME CUT 201	2/1	10	-	1 ~ 5	5	2	2	70	-5	0.20(2.0)
HOME CUT 202	2/2	10	-	5 ~ 15	5	2	2	70	-5	0.20(2.0)
HOME CUT 203	2/3	10 ~ 50	3 ~ 10	1 ~ 5	5	2	2	130	-5	0.20(2.0)
HOME CUT 204	2/4	10 ~ 50	3 ~ 10	5 ~ 15	5	2	2	130	-5	0.20(2.0)
HOME CUT 205	2/5	10 ~ 50	10	1 ~ 5	5	2	2	130	-5	0.20(2.0)
HOME CUT 206B	2/6	10 ~ 50	10	5 ~ 15	5	2	2	130	-5	0.20(2.0)
HOME CUT 211	2/11	10	-	1 ~ 5	5	3	-	70	-5	0.25(2.5)
HOME CUT 212	2/12	10	-	5 ~ 15	5	3	-	70	-5	0.25(2.5)
HOME CUT 213	2/13	10 ~ 50	3 ~ 10	1 ~ 5	5	3	-	130	-5	0.25(2.5)
HOME CUT 214	2/14	10 ~ 50	3 ~ 10	5 ~ 15	5	3	-	130	-5	0.25(2.5)
HOME CUT 215	2/15	10 ~ 50	10	1 ~ 5	5	3	-	130	-5	0.25(2.5)
HOME CUT 216	2/16	10 ~ 50	10	5 ~ 15	5	3	-	130	-5	0.25(2.5)
HOME CUT 217	2/17	50	-	5 ~ 15	5	3	-	150	-	0.25(2.5)

Anti Rust Oil(corrosion preventives)

Product	Disposition / KS	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Coefficient of resistance	Anti Rust Time
ER - 5050	NP -3	0.843	4.6	95	2.5 μ	3 6 month
ER - 5060	NP -9	0.875	18.0	170	7.0 μ	12 month

Heat Transfer Oil

Classification	Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Pour Point	Color ASTM	Corrosive test (100 3h)	Total Acid Value mg KOH/g	Others
Heat Transfer Oil	THERM 1250	0.872	13.5 - 16.5	185	-45	L0.5	1a	0.01	Synthetic
	THERM 1350	0.860	28.8 - 35.2	215	-15	L0.5	1a	0.01	

Vacuum pump Oil

Classification	Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Pour Point	Steam pressure TORR (25)	Color ASTM
Vacuum pump Oil	EM 350	0.867	46	230	-15.0		L0.5
	EM 300	0.873	68.0	236	-15.0	5?10 ⁻⁵	
	EM 100	0.879	100	242	-15.0		
	EM 150	0.882	150	260	-15.0		

Gas Compressor Oil

Classification	Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Pour Point	Ash (%)	Moisture (ppm)	Total Acid Value mg KOH/g
Gas Compressor Oil	GC 46	0.867	46.23	229	-15	0.005	0.01	0.05
	GC 68	0.873	68.0	235	-15			
	GC 100	0.879	100.0	247	-12.5			
	GC 150	0.882	150	261	-12.5			

Air Compressor Oil

Classification	Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Pour Point	Ash (%)	Moisture (ppm)	Total Acid Value mg KOH/g
Air Compressor Oil	Comp 46	0.867	46.23	229	-15	0.005	0.01	0.05
	Comp 68	0.873	68.0	235	-15			
	Comp 100	0.879	100.0	247	-12.5			
	Comp 150	0.882	150	261	-12.5			

Liquid Paraffin (Food Industry Foods)

Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Reactivity	Pour Point	Color (Saybolt)	Corrosive test (100 3h)	Sulfuric Acid Test	Others
80L	0.8630	8.56	158	none	-35.0	+30	1a	pass	2.0/45.3/52.7
200	0.8530	20.5	210		-17.5				0.1/31.3/68.6
300	0.8610	29.5	220		-15.0				0.4/32.6/67.0
900	0.8760	96.2	238		-20.0				0.3/31.9/67.8
20L	0.8176	7.1	166		-40				0.1/19.0/80.9
30L	0.8247	12.7	204		-27.5				0.2/17.3/82.5
40L	0.8320	19.4	226		-20.0				0.2/17.7/82.1
60L	0.8404	30.0	236		-20.0				0.1/21.1/78.8
80LS	0.8450	42.5	256		-17.5				0.1/21.7/78.2

General purpose Oil

Product	Specific Gravity 15/4	Kinematic Viscosity cSt 40	Flash Point	Viscosity Index	Pour Point	Color (Saybolt)	Corrosive test (100 3h)	Sulfuric Acid Test
HP-080	0.875	7.85	180	78	-25.0	L0.5 (+30)	1a	0.01
HS-080	0.864	8.56	158	60	-35			
HS-220	0.854	20.5	210	106	-17.5			
HS-320	0.861	29.5	220	101	-15.0			
HS-980	0.876	96.5	238	98	-20.0			
EU-300	0.830	12.7	206	107	-27.5			
EU-300L	0.831	13.3	205	98	-42.5			
EU-400	0.829	20.0	232	125	-12.5			
EU-600	0.835	35.5	243	135	-15.0			
EU-800	0.845	47.3	260	131	-15.0			
HS-460	0.865	46.0	215	105	-15.0			
HS-800	0.843	47.1	260	131	-15.0			
HS-500L	0.869	90.24	252	105	-15.0			
SYN-20	0.877	13.5	186	36	-50			

Industrial Gear Oil Series

Product	Specific Gravity 15/4	Kinematic Viscosity cSt, 40	Flash Point	Viscosity Index	Pour Point	Rust - preventing characteristic	Corrosive test (100 3h)
Super EP 68	0.875	68.81	235	103	-12.5	pass	pass
Super EP 100	0.892	94.24	230	95	-15	pass	pass
Super EP 150	0.895	150	232	97	-15	pass	pass
Super EP 220	0.895	220	240	96	-15	pass	pass
Super EP 320	0.912	320	255	94	-15	pass	pass
Super EP 460	0.915	460	263	95	-15	pass	pass

Turbine Oil Series

Product	Specific Gravity 15/4	Kinematic Viscosity cSt		Flash Point	Total Acid Value mg KOH/g	Pour Point	Color ASTM	Corrosive test (100 X3h)
		40	100					
TURBIN 32	0.871	32	5.3	210	0.01	-15	L0.5	1a
TURBIN 46	0.877	46	6.8	220	0.01	-15	L0.5	1a
TURBIN 68	0.881	68	8.8	230	0.01	-12.5	L0.5	1a
TURBIN 100	0.885	100	11.4	245	0.01	-12.5	L0.5	1a

Refrigerator Oil

Classification	Product	Specific Gravity 15/4	Kinematic Viscosity cSt, 40	Flash Point	Pour Point	Color ASTM	Total Acid Value mg KOH/g	Corrosive test (100 X3h)
HI-FREEZE SERIES	ISO VG 10	0.880	10	160	-50	L0.5	0.01	1a
	ISO VG 15	0.880	15.12	180	-50	L0.5	0.01	1a
	ISO VG 22	0.880	22	185	-45	L0.5	0.01	1a
	ISO VG 32	0.880	29.49	205	-45	L0.5	0.01	1a
	ISO VG 46	0.881	46	210	-35	L0.5	0.01	1a
	ISO VG 68	0.882	68	210	-25	L0.5	0.01	1a

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