

# Emkarate RL POE Lubricants

Emkarate RL refrigeration lubricants are designed to meet the requirements of compressor manufacturers and service engineers.



## What's in it for you?

- **Emkarate RL lubricants are approved by most of compressor manufacturers.**
- **The product line features more than 30 products offered in varying viscosities between 5 cst to 220 cst and have been developed for use with a wide range of refrigerants.**
- **The Emkarate RL products ensure excellent refrigerant/lubricant solubility, optimum viscosity and lubrication performance across the extreme pressure-temperature ranges encountered in today's compressor systems.**

### Size tank available:

From 1 litre to 200 litres

### Emkarate compatibility:

All CFC, HCFCs, HFCs, carbon dioxide (R744) and hydrocarbons (e.g R-290, R600a) refrigerants. The range offers CO2 compatible reference, so that select the right reference, please contact us. Emkarate RL lubricants are not compatible with ammonia (R-717)

### Elastomers compatibility:

Generally acceptable: HNBR, NBR (Buna-N), NYLON-6,6, TEFLON

Marginal: EPDM (EPR), NEOPRENE

Generally unacceptable: Butyl rubber, Fluorocarbon Rubber (FPM) (Viton), Natural Rubber (NR)

NBR/HNBR should exceed >36% nitrile content. Elastomer compounds supplied by different suppliers can yield different results. Individual testing of specific products is highly recommended.

# Emkarate Polyol Ester Cross Reference Table

Industry Lubricant	Viscosity		Emkarate RL Lubricant
	SUS	ISO	
Atochem Planet Elf ACD22AW	100	22	RL 22H
Atochem Planet Elf ACD32AW	150	32	RL 32H
Atochem Planet Elf ACD46AW	200	46	RL 46H
Atochem Planet Elf ACD68AW	300	68	RL 68H
Atochem Planet Elf ACD100AW	500	100	RL 100E
BVA S46	200	46	RL 46H
BVA S68	300	68	RL 68H
BVA 32	150	32	RL 32H
BVA 46	200	46	RL 46H
BVA 68	300	68	RL 68H
BVA 100	500	100	RL 100E
BVA 120	600	120	Contact us
BVA 170	850	170	RL 170H
BVA 220	1100	220	RL 220Hplus
Castrol Icematic SW 20C	100	22	RL 22H
Castrol Icematic SW 20	100	22	RL 22H
Castrol Icematic SW 22	100	22	RL 22H
Castrol Icematic SW 32	150	32	RL 32H
Castrol Icematic SW 32 C	150	32	RL 32H
Castrol Icematic SW 46	200	46	RL 46H
Castrol Icematic SW 68A	300	68	RL 68HP
Castrol Icematic SW 68	300	68	RL 68HP
Castrol Icematic SW 68C	300	68	RL 68H
Castrol Icematic E 68	300	68	RL 68H/68HP
Castrol Icematic SW 100	500	100	RL 100E
Castrol Icematic E 100	500	100	RL 100E
Castrol Icematic SW 220	1100	220	RL 220Hplus
Castrol Icematic SW 220XL	1100	220	RL 220Hplus
Carrier PP 47-10	100	22	RL 22H
Carrier PP 47-12	300	68	RL 68H
Carrier PP 47-15	100	22	RL 22H
Carrier PP 47-16	150	32	RL 32H
Carrier PP 47-17	300	68	RL 68H
Carrier PP 47-25	150	32	RL 32H
Carrier PP 47-26	300	68	RL 68H
Carrier PP 47-30	150	32	RL 32H
Carrier PP 47-31	300	68	RL 68HP
Carrier PP 47-33	500	100	RL 100E
Carrier PP 47-32	1100	220	RL 220Hplus
Carrier PP 47-34	1100	220	RL 220XL
PP23BZ102	150	32	RL 32H
PP23BZ103	300	68	RL 68HP
PP23BZ104	1100	220	RL 220Hplus

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Industry Lubricant	Viscosity		Emkarate RL Lubricant
	SUS	ISO	
PP33BZ106	150	32	RL 32H
PP23BZ107	300	68	RL 68H
Copeland 22CC	100	22	RL 323MAF
Copeland 323MAF	300	32	RL 323MAF
Copeland 170	850	170	RL 170H
CPI Solest 22	100	22	RL 22H
CPI Solest 31HE	150	32	RL 32H
CPI Solest 32	150	32	RL 32H
CPI Solest LT32	150	32	RL 32H
CPI Solest LT32NA	150	32	RL 32H
CPI Solest 46N	200	46	RL 46H
CPI Solest 46NA	200	46	RL 46H
CPI Solest 68	300	68	RL 68H
CPI Solest 68NA	300	68	RL 68H
CPI Solest 120	600	120	Contact us
CPI Solest 170	850	170	RL 170H
CPI Solest 220	1100	220	RL 220Hplus
Emery 2927-A	150	32	RL 32H
Freol Alpha 68	300	68	RL 68H
Hatco EAL 22	100	22	RL 22H
Hatco EAL 22CC	100	22	RL 323MAF
Hatco EAL 22A	100	22	RL 22H
Hatco EAL 32	150	32	RL 32H
Hatco EAL 32BC	150	32	RL 32HB
Hatco EAL 32ST	150	32	RL 32H
Hatco EAL 46	200	46	RL 46H
Hatco EAL 68	300	68	RL 68H
Hatco EAL 100	500	100	RL 100
Henry Pro-Eco 2882	100	22	RL 22H
Henry Pro-Eco 2821	150	32	RL 32H
Henry Pro-Eco 2887	200	32	RL 32H
Henry Pro-Eco 2823	200	46	RL 46H
Henry Pro-Eco 2830	300	68	RL 68H
Henry Pro-Eco 2824	500	100	RL 100E
Hitachi SR30	1100	220	RL 220Hplus
HULS Anderol RCF-E22	100	22	RL 22H
HULS Anderol RCF-E32	150	32	RL 32H
HULS Anderol RCF-E46	200	46	RL 46H
HULS Anderol RCF-E68	300	68	RL 68H
HULS Anderol RCF-E100	500	100	RL 100E
Hydro Balance ISO32	150	32	RL 32H
Hydro Balance ISO46	200	46	RL 46H
Hydro Balance ISO68	300	68	RL 68H

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Industry Lubricant	Viscosity		Emkarate RL Lubricant
	SUS	ISO	
Hydro Balance ISO100	500	100	RL 100E
Hydro Balance ISO220	1100	220	RL 220Hplus
Lubrizol 2916S	300	68	RL 68H
Lubrizol Lubrikuhl ISO68	300	68	RL 68H
Mobil Artic EAL 322R	150	32	RL 32H
Mobil Artic 22CC	100	22	RL 323MAF
Mobil Artic 22	100	22	RL 22H
Mobil Artic 22A	100	22	Contact us
Mobil Artic 22BC	100	22	Contact us
Mobil Artic 32	150	32	RL 32H
Mobil Artic 32BC	150	32	RL 32HB
Mobil Artic 32ST	150	32	RL 32HB
Mobil Artic 323MAF	150	32	RL 323MAF
Mobil Artic 46	200	46	RL 46H
Mobil Artic 68	300	68	RL 68H
Mobil Artic 100	500	100	RL 100E
Mobil Artic 220	1100	220	RL 220Hplus
National NPE-22	100	22	RL 22H
National NPE-32	150	32	RL 32H
National NPE-46	200	46	RL 46H
National NPE-68	300	68	RL 68H
National NPE-100	500	100	RL 100E
National NPE-170	850	170	RL 170H
National NPE-220	1100	220	RL 220Hplus
Reniso Triton SE 55	275	55	Contact us
Reniso Triton SE 120	600	120	Contact us
Reniso Triton SE 170	850	170	RL 170H
Reniso E32	150	32	RL 32H
Reniso E68	300	68	RL 68H
Reniso E100	500	100	RL 100E
Reniso Triton SEZ 22	100	22	RL 22H
Reniso Triton SEZ 32	150	32	RL 32H
Reniso Triton SEZ 80	400	80	Contact us
Reniso Triton SEZ 170	850	170	RL 170H
Summit RPE-32	150	32	RL 32H
Summit RPE-46	200	46	RL 46H
Summit RPE-68	300	68	RL 68H
Summit RPE-100	500	100	RL 100E
Suniso SL 22	100	22	RL 22H
Suniso SL 32	150	32	RL 32H
Suniso SL 46	200	46	RL 46H
Suniso SL 68	300	68	RL 68H
Suniso SL 100	500	100	RL 100E

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	SUS	ISO	
Texaco HFC 22	100	22	RL 22H
Texaco HFC 32	150	32	RL 32H
Texaco HFC 68	300	68	RL 68H
Texaco HFC 220	1100	220	RL 220Hplus
Texaco HFC 32NA	150	32	RL 32H
Texaco HFC 68NA	300	68	RL 68H
Texaco HFC 100NA	500	100	RL 100E
HTexaco HFC 220NA	1100	220	RL 220Hplus
Thermoking 203-413	150	32	RL 32H
Thermoking 203-426	150	32	RL 32H
Thermoking 203-433	150	32	RL 323MAF
Thermoking 203-427	750	150	Contact us
York Type K	150	32	RL 32H
York Type L	150	32	RL 32H
York Type J	200	46	RL 46H
York Type H	300	68	RL 68H
York Type P	750	150	Contact us

# Emkarate Polyol Ester Approval List

Equipment Manufacturer	Compressor Type Model	Approved Emkarate RL Grade(s)
BITZER	Reciprocating (M)	RL 32H
	Reciprocating (H)	RL 68H
	Screw	RL 170H
BLISSFIELD	Reciprocating (M)	RL 32H
	Reciprocating	RL 68H
BOCK	Reciprocating (H, M, L)	RL 46H
	Reciprocating (H, M)	RL 68H
BOEING	Service (Aerospace)	RL 68H
CARLYLE CARRIER TRANSICOLD	Reciprocating	RL 22H
	Centrifugal (17DA, 17EA)	RL 32H
	Centrifugal (17MPS, 17FA)	RL 68H
	Centrifugal (17EX, 19EA, EB, FA, 19XL/XT)	RL 68HP
	Centrifugal (19EX, 19XR/XRT)	RL 68HP
	Centrifugal (17EX, 17FA, with external gears)	RL 68H
	Reciprocating (05G, 5K, 5F, 5H, 06D, 06E, 06CC)	RL 68H
	Screw (05T, 06T)	RL 100E
CARRIER TOYO	Screw (23XL, 23XG, 30GX, 30HX)	RL 220XL
	Reciprocating	RL 68H
	Centrifugal	RL 68HP
CARRIER TRANSICOLD	Screw (06NF, 06NH)	RL 220Hplus
	Scroll	RL 32-3MAF
COPELAND	Reciprocating & Scroll	RL 32-3MAF
	Screw	RL 170H
DORIN	Reciprocating	RL 22H, 32H, 46H & 68H
DUNHAM BUSH	Reciprocating(D-B Metic and D line)	RL 32H & 68H
	Screw	RL 100E & 170H
FRIGOPOL	Reciprocating (60-DLB-13 to 80-DLB-30)	RL 32H
GRASSO (GEA)	Reciprocating	RL 32H, 68H & 100E
	Screw	RL 100E & 170H
HARTFORD	Reciprocating (M)	RL 32H
	Reciprocating (H)	RL 68H
KOBELCO	Screw	RL 220Hplus
LOCKHEED MARTIN	Used to service Lockheed owned compressors	RL 68H
McQUAY (J&E Hall)	Centrifugal	RL 32H
	Screw	RL 68H, 68HP, 100E, 220Hplus
MYCOM	Screw	RL 100E
	Reciprocating	68H, 100E
NATO MILITARY NSN	NSN 6850-P4314-H	RL 32H
	NSN 9150-99-870-1432	RL 32HB
	NSN 9150-01-443-9390	RL 46H
	NSN 9150-01-443-9396	RL 46H
	NSN 9150-01-435-1899	RL 68H
	NSN 9150-01-410-8972	RL 68H
	NSN 9150-01-387-4469	RL 68H

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Equipment Manufacturer	Compressor Type Model	Approved Emkarate RL Grade(s)
PRESTCOLD	Reciprocating	RL 32-3MAF
REFCOMP	Reciprocating	RL 32H & 68H
ROLTEC	Screw	RL 68H ,170H & 220Hplus
ROTOCOLD	Rotary	RL 100E
ROYCE	Reciprocating	RL 32H
SABROE	Reciprocating	RL 32H, 46H, & 68H
	Screw	RL 68H, 100E, 170H
	Screw	RL 220Hplus
THERMOKING	Reciprocating	RL 32H
TRANE	Reciprocating	RL 68H
	Reciprocating	Icematic AP32
	Scroll	RL 32HB
	Screw	RL 68H
YORK	Reciprocating	Contact us
	Centrifugal	Contact us
	Screw	Contact us